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Ferries sail today as strike ends

The strike at all Sealink ports in Britain except Newhaven was called off after settlement was reached in the dispute over jobs cuts. The 1,100 members of the Merchant Navy and Airline Officers' Association agreed unanimously to end the dispute and resume normal working. Ferry sailings are ex-pected to resume today.

Bid for ACC by a'Court

Australian financier Mr Robert Holmes a Court last night told the Independent Broadcasting Authority the terms of a full take-over bid for Lord Grade's Associated Communications Corporation His proposals concerning ACC's 51 per cent olding in Central Independent Television—the main obstacle to the takeover—are likely to be approved Page 13

Tomorrow's Preview, the 16 tainments published each Fri-day with The Times, contains a first look at the V & A's new Boilerhouse gallery, devoted to industrial design, as well as Preview's regular comprehensive coverage of the coming week's films, theatre, dance, music, opera, exhibitions, family outlings, sport, and broadcasting in Britain.

Alliance pact on local seats

The first joint list of SDP-Liberal Alliance candidates to elections in May is to be announced today. Negotiations between the parties on local government seats have generally gone well, in contrast to

Steps to protect old proposed

The Norwich District Coroner were necessary to prevent old people dying of hypothermia. fter inquests on four people who died in squalid conditions Doctors rarely used their power to ask magistrates for an order to remove old penale from their homes, he said

Briton alleges police brutality

returned to Britain, said that the South African security police kept him in solitary confinement for five days. He underwent what he described as brutal interrogation and mental torture.

CRE chairman

Mr Peter Newsam, 53-year-old education officer at the Inner London Education Authority, is tipped to take over as chair-man of the Commission for to Mr David Lane
Diary, page 10

Home loans fall Depression in the housing

market is reflected in building societies' lending which continued to decline and stood at only 1880m for December compared with well over \$1,000m a month during the page 13 Page 13

Ban on Brown

Lord George-Brown was ban-ned from driving for three years and fined \$200 by magis-rates in Hailsham, East Sussex, for driving with excess alcohol in his blood Page 3

Governor named

Australia's next Governor General will be Sir Ninian Stephen, a High Court Judge. The announcement ends specu-lation that the Prince of Wales might have been offered the Canberra post. Page 6

India in control

India, put in by England, scored 178 for two wickets on the first day of the fifth Test match at Madras. Two catches were dropped. Vengsarkar made 71 before retiring hurt Page 18

Today The Times publishes i 16-page report to mark IT 82, a year's campaign to promote

information technology. Leader page, 11

Letters: On North Sea oil, from Mr Algy Cluff; help for adustry, from Mr Roy Close

Features, page 10 Poland: How western banks have played into Soviet hands; Pastor Niemöller at 90

Obituary, page 12 Major-General Frank Roberts, VC, Mr B. G. S. Cayzer

Science Events 24 Wills

Jet crashes on Washington bridge in rush hour

By Our Foreign Staff

An Air Florida Boeing 737 airliner with 68 passengers and five crew crashed into a bridge in central Washington yesterday, ripping into cars stuck in jams caused by a snowstorm.

The airliner had just taken taken off for Tampa, Florida, from Washington National Airport. Witnesses reported bodies on the bridge and survivors in the icy Potomac below. Immediate reports spoke of six bodies recovered from the river and seven survivors. Fire service and police

officials said the bridge was crowded because the Government had allowed workers to go home early because of the snowstorm.

United States park police said water rescue operations started soon after the crash. with police helicopters dropping lines into the river to try to rescue passengers. The 14th Street bridge is not far from the White House and the 555ft

man for the Federal Aviation Administration (FAA) said just after the crash, which occurred at 4 pm local time: "One of our people who saw the accident said he saw the plane nick the south side of the bridge, skip over it and go into the Potomac river on the north side of the

The Washington fire department launched rescue hoats and at least one reached the scene within "I've heard reminutes. ports that there were some survivors but that is sketchy

dozen smashed cars and an city centre.

overturned lorry which had been crossing the bridge. spokeswoman George Washington University Hospital said it was waiting for survivors but did not know how many to expect.

There has not been a major aircraft accident within the Washington limits in years. National Airport said the aircraft was Air Florida flight 35 from National to White Plains, New York. Later an Air Florida spokesman said the aircraft was bound for Tampa and Fort Lauderdale in Florida.

Fire engines and ambulances threaded their way through streets clogged with snowbound traffic towards the scene about half mile from the White

The Boeing 737 is a twoengined aircraft.

Helicopters hovered over the scene dangling loops for rescuers to grab; but the high Washington monument. freezing conditions were Mr David Hess, a spokes. making it exceedingly difficult for the survivors to keep their grip. A witness reported seeing one man having grabbed a loop fall Rescue attempts were being made from the space between two spans.

On New Year's Day, the FAA said that the United States's . main airlines had logged 26 consecutive months without a fatal accident. The last fatal crash involving a major carrier happened on October 31, 1979, when a Western Airline DC10 crashed in Mexico

to sections of the bridge, been fears of an accident Witnesses said they had of this nature because the seen people inside half a airport is so close to the

Gormley urges miners to vote for pay peace

By Paul Routledge, Labour Editor

day riggered off a bitter politi-cal row by signifying that pit-men should dely their executive and vote for a 9.5 per cent pay offer rather than a strike.

Mr Gormler counselled against a stoppage because miners would lose wages and the expansionist Plan for Coal could be jeopardized. Miners begin voting in secret today on a request from their executive for authority to mount a strike
"if necessary". They are
asked: "Do you support your
national executive?" and vor-

ing is by a cross in a "yes" or "no" box. The NCB offer is printed on the back of the ballot paper. Mr Gormley said :, " I would

have thought the offer was acceptable. I have not changed my view since the executive discussed in." He agreed that his words amounted to an implicit appeal to miners to vote no " in response to the NUM executive's unanimous request for authority to strike, if necessary, to drive up the National Coal Board's final \$102m pay offer. [Sir Derek Ezra, NCB chairman said they would be unable to offer more even if faced with a strike.

Mr Gormley's advice brought. forth a storm of protest from the left in the union Mr Michael McGabey, Communist vice president and leader of the Scottish pitmen, described the eve-of-poll appeal as "out-rageous" adding: "It is unprecedented in the history

Mr Joe Gormley, the out of any union for the president going president of the National to come out against the policy Union of Mineworkers, yester of the union in the middle of a wages battle. . . I am con-fident that we will win the majority necessary for strike

action. Mr Arthur Scargill, the NUM president elect, said: "We require a minimum 15 per cent increase. I am both surprised and saddened. The statement is all the more regrettable be-cause it is a riolation of a unanimous annual and special conference decision."

Mr Gormley's comments vesterday followed a signed article in the Daily Express, in which he said: "There is not much likelihood of a strike producing more than a new more quid in my judgment. And I am not too sure that a lot of miners will be willing to give up earnings well in excess of £100 a week to strike for

that little improvement.

"The left wingers are claiming that a big, clear majority will show the feeling in the coal fields and that, by demonstrated the state of the coal fields and that, by demonstrations are stated to the coal fields." strating that we mean business, we will push the Coal Board and the government into pro "They could be right. No-

body can be wrong all the time. But I am afraid I do not share their optimism. I don't believe the heard has any more cost and I have no false hopes that Maggie Thatcher will cough up for us."
Talking in the Euston Road

headquarters of the NUM yes-terday, Mr Gormley said: "I think the offer ought to have sated the two £500m takenver Continued on back page, col 8 bids from Standard Chartered

Moscow calls Nato resolution a farce

From Michael Binyon, Mescow, Jan 13 -



By Staff Reporters

Algeria to join the search.

As Mr Thatcher arrived in sible sighting. Algerian authorities said a man answering his son's description crossed the frontier into Mali at a remote compose that the state of spot called Irharrhar. There She moved towards a line of were also unconfirmed sight-officials from the National ings of Mr Thatcher's co-driver, Federation of Self Employed Mile Charlotte Verney, and a mechanic. The search was called off until daylight

According to our correspon-dent in Paris, the French Defence Ministry confirmed that the Peugeot car being driven by Mr Thather had been found by the Algerian gendarmerie near the frontier herween Algeria and Mali, though none of is occupants had been located

information that's not substantiated", he said. Boeing
737s can carry up to 128
passengers.

People were reported
clinging to the wreckage of
the aircraft in the river and
to sections of the bridge.

City.

Under Government regulations are rate that to take down and wept yesterday as she awaited news of her son, that two inidentified people were reported allowed over Washington and its heavily-populated suburbs. There have long as Mr Denis Thatcher flew to the sarry of the bridge.

The French news agency, all right. I did feel very sorry down and wept yesterday as she awaited news of her son, that two inidentified people were reported is the sarry distribution and its heavily-populated a private message of concern as Mrs Thatcher, who said she at eatine appointment regulations, aircraft have to take down and wept yesterday as she awaited news of her son, that two inidentified people mand its sequence france. The france Presse reported for her."

Mrs Thatcher, clearly distributed news of her son, that two inidentified people mand its sequence france. The finding people is the sequence of the suburbs. There have long as Mr Denis Thatcher flew to take down and wept yesterday as she awaited news of her son, that two inidentified people is the sequence france. The first two inidentified people is the sequence france of the initial people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence france. The first two inidentified people is the sequence for the first two inidentified people is the sequence for the first two inidentified people is the sequence for the first two inidentified people is th

was very concerned, wept in the foyer of a London hotel while on her way to an engage very concerned, wept in Her aides gathered round her and she leaned against one of them, trying to

compose herself. and Small Businessmen but she had to pause and steady berself when emotion appeared to overcome her.

Red eyed and looking strained, Mrs Thatcher spoke to the owner of a handbag boutique in the Imperial Hotel in Russell Square, Mrs Larrain Goldstein said afterwards: "She stumbled a bir and was. Then she composed

the Hungarian Foreign Minister because of her concern, and retreated to her private rooms in Downing Street. Mr Deais Thatcher was meanwhile on his way, to North

Africa in a private aircraft pro-vided by Sir Hector Laing, a friend of the Prime Minister. A Downing Street statement said every effort was being made to establish where Mr Mark Thatcher was and the Government was in touch with the British embassies in Dakar, Algiers, and Paris.

The French Government sent three military planes into the desert yesterday to join in the search and President Mitterrand expressed his sympathy to Mrs Thatcher.

Profile, page 3

Strike until we win, say drivers

Reporting 100 per cent support from train drivers yester
day for the first day of the 48hour strike, Mr Ray Buckton,
general secretary of the Associated Society of Locomotive
Engineers and Firemen
(Aslef), said the dispute could
be lengthy if British Rail maintained its refusal to make the tained its refusal to make the

payment.

Mr Buckton apologized to
the public "for the inconvenience they are suffering as a
result of the dispute. I want to
make it very clear about its
causes. They are suffering because the British Railways Board has torn up one agree-ment with the society on pay." With both sides firmly en-trenched and no talks arranged to resolve the dispute, there appeared to be no possibility of an early end to the strikes, which will be continued on Sunday and Wednesday and Thursday next week.

Sir Peter Parker, British
Rail chairman, said on the
BBC television programme
Nationwide last night that
flexible rostering, which is at the heart of the dispute, was a "very important symbolic piece of efficiency."

He said that British Rail might have no alternative to closing the railway network if the strikes continued because: Aslef had made it clear that it wanted to wreck services over the next two weeks. The strikes were "totally unnecessary and totally unexpected" in view of the productivity agreements reached with the three rail unions last August. The board will discuss tomorrow whether to suspend the

20,000 train drivers who are striking, a move which Mr Buckton indicated would probably lead the Aslef executive into calling an all-out strike. Even without the suspensions the executive will be discussing possible extended action to follow the strikes. Mr Buckton said the union

had consulted lawyers and was advised that its members may have grounds for legal action nave grounds for legal action against. British Rail for withholding the 3 per cent, which is the second stage of an 11 per cent deal agreed in talks last August that averted a threatened strike.



By David Felton, Labour Reporter

Attieudes in the resilways dispute hardened yesterday when leaders of the footplatemen's union gave a warning that the strikes would not end until British Rail gave a 3 per cent pay increase to members. The union leadership will take a decision soon on whether to extend the action to an all-out stoppage.

Reporting 100 per cent support from train drivers yesterday for the first day of the 48-hour strike, Mr Ray Buckton, general secretary of the Associated Society of Locomotive Engineers and Firemen (Aslef), said the dispute could be lengthy if British Rail main-

A British Rail spokens said that Mr Buckton may be made that point in Ages but if there was absolu-no intention of talking abor negotiating on ending the eight hour day, why conti-

The Aslet executive is in permanent session at the union's headquarters in Hampstead, north London, and is planning next week's strikes. late as last October?"

Commuter chaos in 500 miles of jams

London yesterday was the epicentre of a national upheaval which brought 500 miles of traffic jams to the city and long hours of tedium to those among the 400,000 daily commuters who tried to go to work without benefit of British Rail

(Tony Samstag writes).
The traffic jam was in effect. 10 hours long, the Automobile Association said, beginning at 5 am and going into reverse at 4 pm. Motorists were to be "congratulated on their patience and understanding". The traffic, which involved an overall increase of more than 50 per cent in volume, with a 90 per cent increase on all southeastern and eastern routes, reflected the immensity of the resources made idle by the rail

However, although roads in and out of London were ex-tremely busy motoring organizations and the police said congestion had not been as bad as they had feared. In Greater Manchester and the West Midlands police also said there had been no problems with the evening traffic, although fog had descended on the M6.
On a normal working day

British Rail carries two million passengers on 11,000 miles of track serving 2,500 stations. There are 3,300 locomotives to pull 20,000 coaches and 120,000 1,000 tons of mail.

All that was struck silent yesterday, with only the occasional flurry of movement to indicate that 150,000 or so railway employees were not on strike.

Although the centre of Lon-don remained unusually quiet until well into the afternoon, the traffic jams on the periphery were aggravated by conditions described by the AA as diabolical, with freezing fog and black ice contributing to a rash of accidents. At one stage the M25 south of London, the A23 London to Brighton, the A13 London to Southend, and the A3 London to Portsmouth roads were all blocked by accidents.

Photograph, back page

Government to block Royal Bank takeover

By Peter Wilson-Smith, Banking Correspondent

The Government looks certain to lock both taken or bids for the Royal Bank of Scotland in line with the recommendations of the Monpolies and Mergers Commis-

Mr John Biffen, Secretary of State for Trade, is under-stood to have already con-sulted the Prime Minister and possible for the Government to overrule the Commission. The Government's decision is due to be announced to-morrow. This news knocked everal pence off Roval Bank's

shares. After rising to 1520 earlier in the day, they fell back to close unchanged at 1440. This is still 490 lower than last Friday's price before newspaper reports first sug-gested that the Monopolies Commission, which has investi-

and Hongkong and Shanghai Banking Corporation. recommended against both.
The Monopolies Commission
report has been circulated to
the Bank of England and in

Whitehall, and the issue may be discussed at today's meeting of the Cabinet. However: Mr Biffen and the Prime Minister are thought to have felt that their hand has been forced by the leaking of the report and to have been influenced by the for the Government overturning a Monopolies Commission

recommendation on a merger. Under the 1973 Fair Trading Act. Mr Biffen does have the power to overturn a negative ruling by the Commission. But Bithough last month the Government took the unusual step of rejecting a recommendation on credit cards, it has not in the past rejected the Commis-

recommendations Leading article, page 11

Albanian leader may be dead From Dessa Trevisan

Belgrade, Jan 13

Reports reaching here suggest that Enver Hoxha, Communist ruler of Albania for the past 36 years, died of injuries received in a gun-

injuries received in a gunfight on January 5.

Albenia has stated officially
that Mehmet Shehu, the Prime
Minister, "committed snicide"
on that day during a nervous
crisis. But persistent rumours
speck of a gun-battle between
Prime Minister and party chief
as the cause of Sheku's death.
The facts may be revealed The facts may be revealed when Parkament meets in Tirana tomorrow, but in the meantime striking evidence has emerged which indicates

that Mr Hoxba may have lost

the battle. Yugoslav travellers repor that the huge portrait of Mr Hoxha, made of white pebbles on a hill-top at the frontier crossing at Bozui, has been partly removed. The party partly removed. The party leader's face, which towered demonstratively over the countreside, can no longer be identified. Yugoslavs think that it has been deliberately obliterated as the first step in removing all trace of him!

The other equally significant fact is that Albanian lorries, which transit through Yugoslavia on the way to Western Europe, no longer carry the portrait of Mr Horha, accord-ing to the Yugoslav custom officials, who have made a very careful scrutiny of all these vehicles. It should not neces-sarily be deduced from this evidence that Mr Hoxha's opponents have taken over; but it does show that something unusual lias been going on in Albania since the death of the

lieved that Mr Hoxha was injured in a shooting affray, in which Mr Shehu met his death. The question now is whether he is still alive. Credence is

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trying to dictate to the Poles how to organize their affairs while continuing to encourage anti-socialist forces in the Snow reports 17 Books 8 Snow reports 17-19
Court 12-19
Crossword 24 Theatres, etc 23
Diary 10
Events 24 Weather 24
Law Report 19 Wills 12 country. Tass called the Nato state-"disgraceful farce" ment a "disgraceful farce" initiated by the American Administration. Its style was characterized by the "impu-

Leading articles: Bank of Leading articles: Bank of in Poland or put pressure on England; Miners: US/China the Polish leadership to take the imposition of martial law sive political ambitions". The agency asked what right the Americans and their allies had to speak about Poland the steps it did. while they stifled attempts by An angry official response people in Chile, the Dominican to the recent Nato session on Republic and El Salvador to Poland, issued by Tass, said decide their destiny, and the measures were decided and carried out by Poland encouraged Israeli aggression. Tass said the Nato members alone. And it accused the United States and its allies of

were enraged that the danger of imminent civil war and national catastrophe had been averted in Poland But Wash-ington was still trying to encourage violations of the law and the overthrow of the sys-tem there, using intelligence services, instigatory radio broadcasts and special radio instructions.

The plan of counter-

ist state and restore the bourgeois system, Tass added. But while denying that Moscow or its allies put pressure on Warsaw, it said that the Soviet Union was not indifferent to the fate of socialist Poland. "Hundreds of thousands of

Soviet people gave their lives when liberating Poland from fascist slavery, and this cannot be deleted from the memory of either the Soviet or Polish people. Not a single American died on Polish soil for the liberation of Poland." Reflecting Soviet anger at the hard line adopted in Brussels by the West Europeans,

general political climate even more and worsen the atmosphere for a dialogue between East and West. The message also reflected growing fears here that the Polish crisis will spill over into

the Geneva arms talks. It said the West needed an end to the arms race no less than the Soviet Union and its allies. "No hostility to socialism as a social system can and must overshadow the problems of war and peace, or ending the arms race, especially the nuclear-missile arms race. To

destroy the basis of talks on these problems, the solution of imposing its will on its alties of the world, would mean to he is still alive. Credence is against their national interests. assume a grave responsibility." Continued on back page, col 5

The Russians today denied dent distortion of facts, the revolutionary forces in Poland It said that the obvious Amerithat they played any part in high-handed tones and excess had been to destroy the social- can aim was to poison the

Prime Minister: In Belgrade it is firmly be

Miss Philpot, ged 91, in her bedroom, which she calls "the North Pole".

Victims of the freeze

Cold comfort in an old town

collapsed across her bed in an unheated house, her limbs blue

with cold, and likely to have died within hours. Another pensioner was found wrapped in an eiderdown in front of

just one bar of an electric fire.

Miss Jo Ockenden, aged 76, who recently had three amputations within a year to remove both legs, leaves her gas oven on all day with the door open

to try to heat her large flat.

She manoeuvres her wheelchair.

"Friends tell me I shall

set myself alight one day", the says cheerfully. "My one vorry is heating. It is going to

Coroner urges doctors to act

From David Hewson, Norwich

A coroner noted yesterday that doctors had powers to ask magistrates for an order to remove old people suffering from hypothermia from their homes when they were not under proper care and attention. But the doctors did not under proper care are discussed in official orders. Mr Prior said to enter a hostel, but she ordered them out of the house. Mr John Drummond, the social worker, said: "She became very trate and said under proper care and attention. But the doctors did not under proper care are discussed in official orders."

Mr Prior said to enter a hostel, but she ordered them out of the house. Mr John Drummond, the incidence of hypothermia became very trate and said "I am not worried about dying ordered them out of the house. Mr John Drummond, the incidence of hypothermia became very trate and said "I am not worried about dying ordered them out of the house. Mr John Drummond, the became very trate and said "I am not worried about dying ordered them out of the house. Mr John Drummond, the became very trate and said "I am not worried about dying ordered them out of the house. Mr John Drummond, the became very trate and said "I am not worried about dying ordered them out of the house. Mr John Drummond, the became very trate and said "I am not worried about dying or the proper care and attention of the house warmings about the incidence of hypothermia became very trate and said "I am not worried about dying or the proper care and attention or the proper care an

circles.

Mr Prior said that Dr Taylor

claimed that cold-related deaths totalled from 60,000 to 90,000 in winter. "He has constantly urged that more attention be paid to this state of affairs."

bed "She died on Boxing Day.

A verdict of misadventure was returned.

3. Mrs Gladys Clark, aged 85, who was found on the floor of who was found on the floor of

stantly urged hat more attention be paid to this state of affairs."

The inquests were on:

1. Mr Cecil Hubbard, aged 73, a retired farmworker, of Ostend Road, Walcott, Norfolk, who was found on the floor of had eaten only toast at Christian was found on the story of had eaten only toast at Christian was found on the story of had eaten only toast at Christian was not hungry and liked to be story of the original page.

was was found dead at his was not hungry and liked to home on Boxing Day. The only sleep with the window partly loaf of bread and two packets of biscuits. Police found 5381 in cash in the hungalow.

in cash in the bungalow and savines books carrying credits of \$10.380.

The prolice, a doctor and a social worker had artempted to persuade Mr Hubbard to persuade Mrs Clark was taken to hospital with a body temperature man, said that Mrs Clark's home was as cold as a refrige effect of misadventure, occasioned by self-neglect and lack of care, was recurred.

A verdict of misadventure occasioned by self-neglect was retired children's process.

One thing they find they cust a fortune this year."

often cannot do even in a com-

alongside the gas fire to heat

The Arctic weather neans a

constant red alert fo social

workers in Bexhilon-Sea,

which has the highest propor-

tion of old people in Vestern

In the Sussex town, where more than 60 per cent of the 34.000 population are over retirement age, the danger of deaths from hypothermia in present conditions is acute. The local general hospital, St. Helen's in Hastings, is dealing with four cases a week.

Local policy has been been the lederly out of costly institutions and in their own homes by an intensive network of daily home helps, who wildo everything, including shopping, cooking, cleaning and washing, bathing, emptying commodes and administering medicine.

use that power as much as one would imagine they might, he

The remarks of Mr Oliver

The remarks of Mr Oliver Prior, the Norwick District Coroner, came after inquests on four people from Norfolk who died of cold in squalid conditions, three of them over the Christmas period.

A woman was admitted to hospital with a body temperature of 18°, 19° below normal.

A man of 73 who died in the filthy interior of his bungalow was found to have savings of more than £10,000.

Mr Prior said that doctors

Mr Prior said that doctors had powers under Section 47

of the National Assistance Act, 1948, to ask magistrates for an order to remove persons in certain circumstances: when old people are suffering from

grave chronic disease or, being aged, infirm or physically incapacitated are living in insanitary conditions and are unable to care for themselves and are not receiving from other persons moner care and

The campaign said that all electricity boards, except those in South Wales, were

continuing to disconnect sup-plies where bills were unpaid.

despite the extreme cold and the risk to life

At present more than 500 households were having their electricity supply ended each

with four cases a week.

Europe.

NEWS IN SUMMARY

Death in snow: PCs

Two police constables berge an inquiry beging in Fiding wife over the desire of a man wife over the desire of a man wife over the desire of a man wife outskirts of the city (Our Edinburgh Correspondent wites).

The body of Mr Tony Wilson, was found eight days after he was last seen at his Edinburgh thome. It is alleged that he was driven from his home in a police car and feleased on a lonely road on the city's outskirts in freezing conditions.

Lothian and Borders police said, the officers had been suspended pending the outcome of the injurity. A report will be submitted to the Procurator Fiscal.

Ministers help in air-fares fight

The Government is to sup-port the argument at the Euro-pean Court of Justice of Lord Bethell Conservative European MP for London, North-West, that certain aspects of the pre-

MP for London, North-West, that certain aspects of the present arrangements for fixing European am fares: are against BEC competition rules (Robert Jones writes).

The notification that the Treasury Solicitor wishes to appear is intended as a warning to other European countries that Britain is prepared to fight in the courts for cheaper fares and fewer restrictions on European air traffic. tions on European air traffic.
Lord Bethell will meet Frans
Andriessen, the responsible
EEC commissioner, today.

Food firms' plea over CAP

The Food Manufacturers' Federation yesterday renewed its call for changes in the EEC's common expicultural policy, to make it more responsive to the realities of supply and demand (John Young writes).

It comes on the eve of the annual round of negotiations on farm price increases.

on farm price increases.
The European Commission
is expected to make
its recommendations romation or on Monday.

Colleges face cash cuts

High-spending polytechnics and colleges are to ger far less and coneges are to get far less modey under the Government's new system of funding higher education outside the univer-sities (Diana Geddes writes). The Government is expected to announce on Monday the distribution of the higher education pool which for some institutions will involve a 16 per cent cut in real terms compared with 1980-81.

Political levy tops £100.000

More than £100,000 has been raised towards the £250,000 target of a union-controlled levy fund set up last September to aid the Labour Party between now and the next general election, it became known vectorian after a meet esterday aller a meet ing of Trade Unions for a Labour Victory (TULV) (Our

'Sunday Times'

Brian Mechifither. executive editor (news) of The Times, has been appointed joint deputy editor of The Sunday Times, with effect from next week. He will replace Mr Ronald Hirll and will edit the paper in the absence of the editor, Mr Frank Giles. Mr Hall, who is also editor of The Sunday Times Colour Magazine, is definitionally for take up other difference of the Sunday Times Colour Magazine, is definitionally fine posts to take up other difference in the sale that when he arrived at Downing Street he was trying to think what to do. Then I walked to Westminster, still with no clear ideas of what I make the doing the sale that when he arrived at Downing Street he was trying to think what to do. Then I walked to Westminster, still with no clear ideas of what I make be doing, he said. Mr Easmond said that heretiged to Downing Street and when a policeman told him Mrs. Thatcher would be going to the Commons soon, he decided to make his protest when she came out the Palace of Westminster and do some protest inside and try to get some jatention to myself."

The case continues roday.

Civil court fees Increase Suspended VIS Considered Two police constables days By Anthony Bevins, Political Correspondent

Substantial increases in the higher judiciary were met fees ghalfsed for card court from the Consolidated Fund so as to emphasize the independence of the Exchequer.

Mr Gordon Downey, the Compared and Auditor clude them in a departmental compared, has informed the account?

Commune Commines of Public Processors Commons Committee of Public Accounts that the arrangeports that there had been a long-standing dispute between the Lord Chancellor's Departments for setting fees exclude many of the costs of civil pro-

ceedings. He reports that a "substantial subsidy" is involved and adds that "the ment and the Treasury over the extent to which the books should be belanced for civil Treasury do not appear to have been fully aware of the extent of the subsidy given to civil proceedings in the courts.

"Successive Lord Chancellors have argued against in-creases beyond limited costs because of the social benefit The fees which are now to be examined by officials and ministers: include charges made for probate, exatriments

conferred by the court service, and the danger that excessive fees could lead to a denial of fees could lead to a denial of justice to poorer litigants."

Mr Downey points our Where it has been decided as a deliberate act of policy not to charge the full cost of a service it is usual, whenever possible, to agree with the Treasury a specific target level of recovery, for example, as a percentage of full costs." That principle had not been applied to court fees for civil proceedings.

Mr Downey therefore asked the department and the Treaproceedings, debt recovery, and bankruptoy. Mr Downey says: "The and Downey Says: "The costs taken into account in fixing fees are limited, since they do not seek to recover any part of the salaries, pensions and associated administrative expenses of the judiciary. Nor are the fees set so as to recover full expenditure on allied services such as accommodation. vices, such as accommodation, staff pensions, investment expenses and banking ser-

the department and the Tres-sury whether the fees policy should not now be reviewed drawn up by the Lord Chancel-lor's Department for 1980-81 by ministers.
In reply the Lord Chanshowed that fees and other income from civil business
brought in £68.3m, with a
deficit amounting to an estimated £22m. Estimated receipts for the current year
were put at £74m.

cellor's Department said they considered that it would be appropriate in the current situation for a note of the facts and considerations bearing on and considerations bearing on fee policy to be agreed between officials of the LCD and the Treasury, and that this report should be submitted to minis-

Plot to kill **Thatcher** is denied

were put at 1.74m.
The Lord Chancellor's Department told Mr Downey that the salaries and pensions of Circuit Judges and the

A teenager denied at the Central Criminal Court yesterday that he intended to kill the Prime Minister when he broke through Parliament's tight security armed with a knife.

Nigel Eastmond said he planned to make a personal protest. "Killing had just not entered my misd—or doing. violence to anyone."

"I do not have any feelings towards Mrs Thatcher at all."

Mr Eastmond said in evidence.
"Taking things on a political basis maybe I may have, but personally no."

personally no."
Mr Eastmond, aged 18, of Queen's Drive, Finsbury Park, north London, has denied threatening, to kill Mrs. Thatcher; entering the Palace of Westminster with intent to inflict grievous bodily harm on her being to the property of the propert on her, having a knife in Old Palace Yard; and attempt-ing maliciously to wound a Parliament employee on July 9

last.
The prosecution allages he set out on a personal mission to kill Mrs Tharcher, and that he scaled a fence into Black Roll's garden, brandishing a kitthen kniff, shouting a kitthen kniff, shouting: "I want to kill Margaret Thatcher."

Yesterday Mr Eastmond said he had gone to 10 Downing. Street "to make a protest to relieve teasign and draw alten-

Staff changes

The Sunday Times an place I would get heading nounced resterday that Mr Brian McArthur executive importance to myself?

editor (news) of The Times, head taken the knife from his head attention of the thirt head to be not been appointed to be head to be not be not been appointed to be head to

The, case continues today.

Gowrie dual citizenship hint uproar

From Richard Ford Belfast Government

tine Government faced strong criticism last night from Unionist politicians in Ulster over comments made by Lord Gowrie, Minister of State at the Northern Ireland Office, concerning the political and economic problems of the province problems of the province problems of the province problems. vince, particularly the question of dual nationality with the

republic.
In a wide-ranging interview,
Lord Gowrie made clear that despite pressure and criticism from politicians in the North Government had set its ; "like flint", against drop-g cooperation with the

face; "like flint", against dropping cooperation with the republic.

The minister, a southern Protestant, brought up in Donegal, also suggested that he would like to see dual citizenship with people in the North who regarded themselves as Irish being administered by Ireland and Britain. His remarks were imme-His remarks were immediately denounced by both parties who represent "loyalists" in Ulster, with a spokesman for the Official Unionists calling them "damnable".

A statement from the Rev Ian Paisley's Democratic Unionist Party attacked Lord Gowrie's comments as a brazen

declaration.

It called on all Ulstermen to defend their heritage from a government-planned destruction and added: "The minister treaks of fills determined." speaks of flint determination, but he will experience the real meaning of that term if he dares to try and push Ulster down the road he plans "



Mrs Eileen Paisley, who will deliver a speech in Washington for her husband, the Rev Ian Paisley, who has been refused an

CASH DELAY 'AFFECTS CHILDREN'

Under-Secretary of State at the Department of Health and Social Security, society officials said that he had asked for more time to consider the

financial position since last July, the society said. In 1980 the society had a deficit of £828,000. Lord Elton, who is said to have listened sympathetically to the society's case, is to visit the society's office in Haringey, London, today.

Dr Alan Gilmour, the society's director, said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convince him of our said: "We hope it will convert him of our said: "We hope it will convince him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will convert him of our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our said: "We hope it will be said him our s

The Prime Minister was urged yesterday to prevent more babies and old people dying of cold in the severe weather by instructing the fuel suppliers to suspend disconnexions.

By Pat Heaty, Secial Services Correspondent

That there pointed out that the social security and energy ministers and the campaign's an independent review of the representatives. Some claims code of practice designed to anis in fact already receive finel suppliers to suspend disconnexions in cases of some extra help towards their heating bills. connexions.

The Right to Fuel Campaign, which is due to meet ministers today to argue the case that nine out of ten were estimated 30,000 households which are without electricity.

The campaign said that and found that most of the people disconnect ted could not afford to pay their fuel bills. More than nine out of ten were estimated 30,000 households three fifths were living on state benefits.

In a normal winter 48,000 more people aged over 65

incapacitated are living in insanitary conditions and are unable to care for themselves
and are not receiving from
other persons proper care and
attention.

What does concern me is
the deterioration of standards
of social behaviour which
leads to this state of affairs,
self-negiect and living in

occasioned by self-neglect was
of Cambridge Street, Norwich,
a retired children's nurse, who
died at her home on December
of the house and living in

There was no electricity in
the house and living in

A verdict of misadventure
occasioned by self-neglect was
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A verdict of misadventure
occasioned by self-neglect was
of cambridge Street, Norwich,
a retired children's nurse, who
died at her home on December
of the house and living in
worker, who pleaded with her

Plea to stop power disconnexions

in a normal winter 48,000 more people aged over 65 died than in the summer, the campaign added, and deaths of habies aged under 12 months rose by two fifths. In the present severe cold disconnec-ting electricity supplies was adding to the difficulties of people ar risk.

households were having their electricity supply ended each day, and a quarter of the households without electricity had been cut off for at least a month.

The latter to Mrs Margaret after today's meeting between

By Pat Healy, Social Services Correspondent

A verdict of misadventure, occasioned by self-neglect and lack of care, was returned.

4. Miss Ivy Bracey, aged 84, of Cambridge Street, Norwich.

help coordinator, said
Miss Eleanor Philipot, aged
91, who lives alone in an
upstairs flat, calls her inheated
bedroom "the North Pole"
At bedrine she relies on a hot-

tter bottle and warmth from

the sitting room. "The fire costs so much", said Miss

Philpot, who saves all year to spend Christmas and Easter

in a hotel down the road.

☐ Mr Alfred Nudds, aged 87, a bachelor, who is blind and almost deaf, is surviving the freezing temperatures in a f13 wooden hut 8ft by 6ft on the edge of Hickling Broad, Norfolk, without electricity or running water (our Norwich Correspondent wites)

I would rather die in my own bed . She died on Boxing

Householders receiving sup-pigmentary benefits whose family includes a person aged 70 or over, or children under the age of five, automatically receive a beating allowance of £1.65 a week. That would buy enough beat from a two-bar electric beater to keep one room warm for about 12 hours, and hot water for a mother and baby barely sufficient for a day. a day.

People who are sick or dis-shled and who live in homes hard to hast can get heating allowances of £4.05 a week, enough to buy about 45 hours' heating from a two-bar electric fire, which is acknowledged to be an inefficient method of heating. Gas, heating would cost about helf the electricity figure.

Threat of censure over GLC fares vote

By David Walker Some of the moderate and right-wing Labour members of the Greater London Council who voted on Tuesday to double bus and Tube faces in their local parties, despite a public promise by Mr Kenneth Livingstone, the council leader, that there would be no with

The front page of the influential left wing monthly London Labour Briefing, when it is published tomorrow will list all GLC members and how they you at the private group meeting of Labour councillors on Monday.

An editorial article notes Ar reditorial article notes that those voting for the fares increase, were obeying Tory judges, and delying a strong recommendation from the executive committee of the London regional Labour Party urging councillors to make a stand on the fares issue above all others.

Recent meetings of Labour councillars at County Hall have seen amicable, but members of Mr. Livingstone's inner cabinet have said in private that the roting record of their colleagues is something for constituency parties to con-

constrainency and a sider.

At Tuesday's eight-hour council meeting Mr Tavingstone said. I urge my colleagues not to make this a divisive issue". Because voring against the fares increase could leavé councillors liable to Onsocial penalties and disbaras we will be a seried of the series of the

Briefing caucus are likely to argue in their various constitutions that all Labour councillors should be prepared to be surcharged and sued in pursuit of their socialist policies.

Cuckold by pony costs paratively affluent retirement area like Bexhill is to persuade the old people to heat their homes. This week a home help discovered Audrey, an elderly spinster of comfortable means, collapsed across her bed in an unheated house her limbs blue help coordinator, said. £140,000

When a little grey Conne when a little grey Come-mara pony stepped in to sire foals from two racing mares, astead of the successful stal-lion. Tap On Wood the resulting mix-up cost his owner more than £140,000 in com-pensation. pensation.

pensation.
The pony standing 12 kands was used as a marker in season at the Kildangan Stud. in Ireland, owned by Mr. Roderic More O'Ferrall.

More O'Ferrall
The mix up occurred according to Mr Norman Buxlon, said groom at the time at the co Kildare establishment, who said he was not to blame for the mix-up, because the pony was allowed to run unsupervised with the mare.

After the findings Count.

Marweldt received a total of \$72,500 in compensation, to \$10,000 return of fee, a free common received with the most advanced devices achieve this control with magnetic fields. With the commission to Tan On Wood.

Science report-Classical physics makes a comeback

By the Staff of "Nature"

The era of classical physics, The era of classical physics, the stuff of Sir Isaac Newton, James Clerk Maxwell and Lord Kelvin, among others, is generally thought to have come to an abrupt end in 1905, when Abert Einstein published his revolutionary theory of relativity. At the very latest the period is extended to the mid-1920s, when quantum mechanics (which describes elementary particles as a kind of statis-(which describes elementary particles, as a kind of statistical combination of particle and wave) was established. But now Professor W. Farrell Edwards, of the State University of Utah, comes along and mysets the historical apple cart.

Professor Edwards has given a beautifully simple, classical proof of an importclassical proof of an important phenomenon which was thought to be a purely quantum mechanical effect. The result is that the phenomenou can now be sought in start, in space, end even in the phenomenous are fusion reactors. It may have a profound effect on astrophysics and on the fusion physicism approach to nuclear fusion.

The phenomenon is the

nuclear fusion.

The phenomenon is the "Meissder effect", which controls the relationship between magnetic fields and superconductors. Superconductors are materials (usually metals) held at very low temperatures, when the random thermal joggling of the control of the contro atoms is so small that quantum effects can have a large scale impact—with the result that electrons (whose flow constitutes an electric corrent) can flow like waves,

without resistance, through the substance.

The Meissner effect ex-cludes all magnetic fields from a superconducting region—except for occasional thin tubes of field that can thin takes of field that can penetrate the superconductor like nails through wood. In-side each tube the super-conductor reverts to a nor-mal, resistive state. Outside the subes the magnetic field

Professor Edwards has now shown that that phenomenon can occur classically in any material that has high enough conductivity—even enough conductivity—even when quantum mechanical effects ere unimportant. The right conditions can occur in plasmas, high temperature gages in which electrons have been stripped from atoms, leaving all the particles electrically charged. As it happens, most matter in the Universe is in the plasma state (stars are almost, entirely plasma, for most entirely plasma, for example) so the pheno-menon if Edwards's elegent theory is correct, should be found widely.

Even more important for

energy-hungry Earth, nuclear fusion—which would create nomination to Tap On Wood (now raised to £12,590) and f50,000.

A similar amount of compensation was also paid to Quay Line's owners, the Barnett family of Belfast.

Meissner effect to hand, it is conceivable that that control will prove easier.

Source: Physical Review Letters (vol. 47, p 1863), 1981.

O Nature-Times News Service, 1982.

Ministerial onslaught on Civil Service managers

By a Staff Reporter
Lady-Young, Chancellor of rewarding as one spent in the

management pariments a pariment a career acceptance will be publicable throughout the Civil Service setting out that a career spent largely in ment intend management jobs can be as objectives.

Lady Young, Chancellor of the Duchy of Lancaster, yester day blumtly attacked unprofessional management in the Scivil Service and promised radical changes this year aimed at securing greater efficiency and value for money.

In the first important minister said that to active that objective the amount staff reporting system and promotion recommendations would need to give more emphasis to management performance. She also promised to increase delegation of responsibility and to bring in more staff with external financial qualifications.

"It will mean that the continuity of economies in Whitehall did not spring just from present political and economic circumstances. This year it could be carried through into a lasting philosophy."

Addressing under-secretaries at the Civil Service College, in Sunningdale, Berkshire, Lady Young said that "attitudes in the Civil Service College, in Sunningdale, Berkshire, Lady Young said that "attitudes in the Civil Service towards management will need to be changed, in some cases quate redically. I still meet the attitude that jobs in the policy areas of departments, are superior to those in line management."

"Clearly we need to change the culture quite dramatically

e vila

It will also involve projects to improve the system for controlling running costs in departments and to examine the personnel work of departments. An "action document" will be published next month setting out how the Government intends to achieve those objectives.

Doctor wins libel action

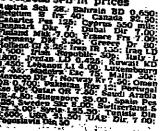
Dr Garth Wood and his wife, the article suggested that Dr Par Booth the model and Wood, having qualified as a photographer yesterday ac medical practitioner in this cepted undisclosed demages and casts in settlenest of a High Court life! action over a the publication of the article Dr Wood was employed to California. Since the publication of the article Dr Wood was employed to the National Health Service. Mrs Wood complained of a senior house officer in psychiatry at University College Hospital.

Mrs Wood complained of a senior house officer in psychiatry at University College Hospital.

Overseas sell'nt prices Austria Sch. 28. Embrain BD 0.650. Bestiam With the was reading impression that she was reading a book with a light and salar clous-looking cuver. The couple had steed Associated Newspapers Mr Datid Raginsh, editor of the Daily Mol, and Nigel Dempster, who wrote the nutcle.

Mr Desmond Browne, counsel for De and Mrs Wood.

The Society Str. 200. Seated Associated Str. 200. Seated Str. 200. Seated Associated Str. 200. Seated Str. 200. Seated Str. 200. Seated Str. 200. Seat



105 .TO . 20' ..30 . 40 .50 .60 .70 √ 50 .90 100 Acclaim driver wins top award for outstanding economy drive.

in December to Lowret. freciance journalist won. the Guild of Motoring Writers' highly coveted performance in railying.

rum - The Hants and

Berks Economy Rur

Timo Makinen Award, given for an outstanding. Mr Lowrey, an expert in economy driving techniques, was given the award for his victory when he partnered the new Triamph Acclaim in Britain's premier economy

Despite the challenge of many smaller engined cars, the Acciaim wonoutright, with nemarkable consumption figures of 75 mpg overal.

Triumph are especially proud to have won the Run against heavy overseas competition. The Acclaim's performance confirms BL Cars' trad- 4 ition for exceptional fuel economy.

BL Fighting back

and the second s

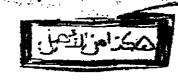
By Nicholas Timmins

The National Society for the Prevention of Cruelty to Children, which is in a serious financial crisis, said last night that it was disappointed that the Government has still to decide whether to give it financial support.

support.
After meeting Lord Elton.

matter.
The Government had, however, known of the society's urgent financial needs. If it does not it will be extremely bad news for many children.".

Householders receiving sup-



revolutionary i ativity. At the e period is en the mid 1920s and mechanical best elementary kind of the second secon kind of Marie ssor W Farrell he State Unit.

generally going well.

Agreements have been reached on the division of seats in about 85 per cent of for most of the district council elections in Tyne and Agreements have been reached on the division of seats in about 85 per cent of the six metropolitan and 103 non-metropolitan district councils, where there will be elections in May.

Of the 32 London boroughs, there are firm

announced today.

The 50 seats on Hammersmith and Fulham Council will be contested by 26 Social Democrats and 24 Liberals. It

days shows that, in contrast

agreements between the Liberals and SDP in 15, and negotiations are nearly complete in eight. There are only three areas of conflict in the capital: Richmond, where the Liberals believe they can win nearly every seat and are reluctant to concede more than a few to the SDP; Hackney, where negotiations got off to a sticky start and there is argument over who should fight in Shoreditch;

serious possibility that there will not be any agreement. The SDP has high hopes of retaining its control of Islington. The alliance is also looking for victory in Lambeth, where there will be 43 SDP and 21 Liberal candidates, Camden, Hammer-smith and Fulham, and

and Harrow, where there is a

Alliance in harmony for local election seats

The first joint list of In most places seats have There are only four areas SDP/Liberal candidates who been divided between the two among the metropolitan diswill carry the alliance banner parties on a roughly equal trict councils where negointo the London borough basis. In Manchester, where tations are proving difficult.

They are in Newcastle, Stocktrict council comes up for port, North-west Leeds and reelection in May, the share Kirklees (West Yorkshire). is exactly half.

The Birmingham Metro-Democrats and 24 Liberals. It politan District Council election will be the first time for more than fifty years that Liberals and 58 Social Demotrates about parliation will be contested by 59 mentary seats, and in three cornered fight in all the seats only a third of the council make horself the council and the contested by 59 mentary seats, and in three of them there are sitting SDP or Liberal MPs.

Among the non-metrocornered fight in all the seats only a third of the council in the borough.

A survey carried out by division will be 15 Liberals difficult areas known to the council Among the non-metro-politan districts, the only difficult areas known to the council and 14 SDP The Times in the last few and 14 SDP.

to the difficulties over an ascendancy in some of their traditionally strong seats, negotiations between the two parties in the alliance on this summer's local government elections are generally going well.

Agreements have hear the liberals have achieved cillors are Wyre Forest (Kidderminster) and Cambridge.

Mr lan Wright, southern region organizer for the SDP says: "I have yet to receive a condidates and only six Social Democrats. However, that is halanced by a larger

Surrey agreement The two parties also announced yesterday that they have reached agree-ment on the sharing of parliamentary seats in

Surrey.

The SDP will fight four (Chertsey and Walton, Guildford, Reigate, and Spelthorne) and the Liberals seven (Dorking, Epsom and Ewell, Esher, Farnham Surrey East Farnham, Surrey East, Surrey North West, and Woking). All 11 seats in the county are at present

held by Conservatives.

Although the Liberals have gained a numerical superiority, it is at the expense of giving up to the SDP the seat they are most likely to win in the county. Chertsey and Walton is the twenty-ninth Liberal seat in Britain with prime winning prospects on the basis of the 1979 general election figures. Significantly, in all those areas there are also serious

The Liberals have achieved cillors are Wyre Forest (Kidderminster) and Cam-

phone call from any local party saying that they are likely to put up candidates against the Liberals."

Both party organizations are impressed at how well the local election negotiations.

are impressed at how well the local election negotiations have gone. Mr Wright puts it down partly to the pressure of time imposed by the May deadline, which has concentrated minds in a way that has not happened with the much more delicate parliamentary negotiations. mentary negotiations. Mr Tony Greaves, secretary

of the Association of Liberal Councillors, feels that the success of the local government negotiations is due to the fact that they were left to lucal people, with a minimum of interference from on high.
"Where there have been difficulties, it has nearly always been because the central party office or an MP has intervened", he says. "I feel that is a lesson that the parliamentary negotiators parliamentary negotiators should learn."

Mr Greaves says that in most places the SDP have been happy to let Liberals fight those wards in which have built up a

Lyndhurst yesterday.

Lord George-Brown, the former Secretary of State for Foreign Affairs and Labour MP for Belper, was banned from driving for three years and fined £200 at Hailsham Magistrates' Court, Sussex, yesterday, when he admitted driving with excess alcohol in his blood.

Lord George-Brown and stage he came perilously close to colliding with a ers he had drunk a half bottle parked car. A little later he of wine about half an hour before on the train from London. A breath test proved positive and a blood sample when tested gave a reading of the correction when tested gave a reading of leavy rain and high winds. But he stopped shortly after representing Lord George-Brown stage when he turned into the control of the

Lord George-Brown is banned

his blood.

Lord George-Brown, aged
67, was nearly two and a half
stimes over the logal main times over the legal maximum, with a blood alcohol reading of 193mg, the court was told. He had been convicted of a similar offence and damage to the front near told.

The same of the car from a recent that after such a distinguished career in public service behind him he now has to plead guilty to this offence.

At the time of the recent

in September, 1973.

Mr Thomas Lavelle, for the prosecution, said two police he had clipped a lamp-post in Brown's mother and wife had officers saw Lord GeorgePolegate after making a suffered heart attacks and purchase in a shop", Mr were very ill. He came down course in his Singer Gazelle
Lavelle said. "He was quite under extreme pressure to the waskend at his car at Polegate, Sussex, at courteous to the police and spend the weekend at his gave them no difficulty at country cottage. He had drunk too much, he freely and followed his car. "At one Mr Lavelle said Lord admits."



destined to add a splash of colour to snow-white mainland Britain.

only, Shell claims

THE TIMES THURSDAY JANUARY 14 1982

there were three other areas

Pressed by Mr A. F. Holford-Walker, national

secretary of the Council for

national

whereabouts.

Fears that successful oil posal to go farther than exploration in the New Forexplorations.
est, Hampshire, might lead to The bore hole would be a rush of drilling and capped and sealed after the production applications in assessment of the potential this environmentally sensi irrespective of what was tive conservation area found. The Denny Inclosure brought vigorous opposition would then be restored to its from both national amenity natural and unsullied state. groups and local inhabitants Whatever Shell's immediat the public inquiry in ate intentions, there was no

There were suspicions that of conservationists that if oil There were suspicions that other oil interests, including was discovered the company would not return at a later British Petroleum, were waiting on the side-lines to see the results of the Shell application to drill an ex-ploratory bore hole at the Denny Inclosure, in the New Forest, at a cost of about

Elm.
Denny Inclosure is an area of the forest fenced off to prevent grazing by ponies, deer and cattle so as to allow the planting of young oaks and conifers. Shell UK suspect that a maximum of about 50 million barrels of oil lies in what is called geologi-cally the Lyndhurst struc-

Dr. Philip Nelson, head of Shell's Land and Western

Oil bore exploratory | Dealers to surrender auction evidence

Dealers has capitulated to the Office of Fair Trading and agreed to hand over the body of its evidence on the buyer's premium charged by auction-

In a confidential newsletter to members Mr John Baskett, the society chairman, says that the public interest must be taken into account, and that had influenced the Society's decision.

The Office of Fair Trading will now be able to proceed stage to apply for production licences."
Dr Brennand agreed that in the New Forest in which the company is interested for exploration purposes, but he declined to disclose their

> At the same time the society's executive committee says it is to consider asking

> society and the British Antique Dealers' Association refused a request from Mr

sider the premium.

with its investigation into wheterh Sotheby's and Christie's colluded over the introduction of the buyer's pre-mium in 1975 and whether they were in breach of fair trading practices.

the Protection of Rural England, to say why Shell Parliament to outlaw the premium, which is charged in was prepared to spend £1m addition to the hammer price. on an exploratory bore hole when they were suggesting In November both the

that production might never be proceeded with, Dr Bren-nand said that the risk of

By Frances Gibb The Society of London Art in September after the aucealers has capitulated to the tion houses agreed to recon-

> But in December, Sotheby's announced it was keeping the 10 per cent buyers' premium and increasing vendors' commission charges from 10 to 15 per cent on items worth less than £500.

Christie's, on the other hand, announced that from January 1 last the buyers' premium would be cut to 8 per cent and the vendors' premium increased from 10 to 12½ per cent on items worth less than £1,000. Mr David Mason, chairman

of MacConnal-Mason, the London dealers, who has been a leading critic of the trade organizations for their tardiness, said yesterday that he was delighted at the Society's decision and had no doubt that, the OFT would find against the auction

opposition spokesman on the arts, who has pressed for the Shell's Land and Western Off-Shore Exploration and Production, estimated that about 20-40 per cent of that oil is recoverable.

Dr Timothy Brennand, Shell's director of exploration, the Lyndhurst structure was unlikely to have rations, under cross-examination gave an assurance that there was no present prodealers to be compelled to

NEWS IN SUMMARY

Anger over lecturer's £110 bill

Oxfordshire County Council is being asked to explain why it paid £110 for expenses public speaking seminar for 12 staff (Our Oxford Corres-

Jastic Our Oxford Correspondent writes).

The firm of management and training consultants who sent-the lecturer were paid lecturer teceived £110 for travelling expenses and an overnight stay in Oxford.

As single rooms at the city's best-hotel cost £27.50 a night, including VAT, service and breakfast, councillors want to know why the expenses came to £110.

Mr John Power, a Labour county councillor, said: "At a time of public spending cuts I think it is wrong that the council should be paying for this type of exercise We must have a full explanation and breakdown of costs."

Bomb inquest adjourned

An inquest into the death of Amir Amani, aged 19, a student, and Hassan Taher, aged 24, a labourer, in a car bomb explosion in Conbomb explosion in Con-naught Square, Paddington, on December 13, was further adjourned until today at Westminster's Coroner's Court yesterday.

Dr Paul Knapman, the Coroner, said that the inquest would be adjourned again today for technical

CB woman dies in road crash

What is believed to be the first fatal road accident involving citizens' band radio was disclosed yesterday by Derbyshire police. A young mother drove out

of a lane on to a main road while transmitting and was killed by a lorry at Spinkhill, near Chesterfield.

£142,000 drugs found on beaches

Drugs with a black market value of more than £142,000 have been washed up on Norfolk and Suffolk beaches, a customs spokesman said yesterday. Three hessian bags containing a total of 100lb of cannabis resin, have been washed up at Great Yarmouth A fourth package, found at the high water mark near Lowestoft, contained 41lb of cannabis.

Change to private firms to cost taxpayer £10m

By Anthony Bevins, Political Correspondent

A ministerial decision to hive off the administration of road construction work to private consultants will cost the taxpayer up to £10m in the current financial year.

The hidden cost of the denationalization move, with continuing losses in future years, has been revealed in a report written by Mr Gordon Downey, the Comptroller and Auditor General. He says that responsibility for £2,000m of road contracts, organized by the Ministry of Transport, has been transferred to 15 consultant engineering firms "despite the extra costs involved".

The report, which will be considered by the Commons.

extra costs involved".

The report, which will be considered by the Commons Committee of Public Accounts, shows that an estimated £4m will be paid out in redundancy money to about 1,700 staff. Mr Downey tells MPs. "Since many of the court war, with a similar costs could be as high as £4.7m in the courtent war, with a similar costs could be considered to the courtent war, with a similar costs could be considered to the courtent war. out in redundancy money to about 1,700 staff. Mr Downey tells MPs: "Since many of the staff had been reemployed by consulting engineers, on similar duties and often in the same location." location, I asked the department what steps they had taken to reduce the incidence of redundancy payments in

current year, with a similar "penalty" next year, which would "probably" diminish in future years. A review of the work of the subunits was launched in 1979 because cutbacks in the road building programmes undoudtedly made the subunits less ef-

Channel Four 'boon to programmes market'

By Kenneth Gosling

Channel Four had done a Among the BBC's plans Channel Four had done a valuable job in creating a more independent market in television programmes, a BBC executive said yesterday:

Mr Roger Laughton, head of the BBC's network features department, added it was a myth that the BBC was not interested in independent producers. "We are interested in anyone who comes the same and Tina Brown, from whom, with two others who have the been on the programme, a regular presenter will be chosen.

There will also be 15 programmes in which Dresser.

ested in anyone who comes to us with a good programme idea", he said.

Mr Laughton, whose department deals with three specialist areas, rock and popmusic, film and television, was announcing programme plans for the coming year.

Chosen.

There will also be 15 programmes in which Dr Jonathan Miller will meet leading psychologists; a series of birthday tributes to people in the arts and specialist areas, rock and popmusic, film and television, barne Flora Robson; a new series of Writers and Places, specialist areas for the coming year.

usual high quality. We have reduced only those goods which we wish to

plans for the coming year.

The success of the independent sector has already received favourable comment this week from Mr Jeremy Isaacs, chief executive of Channel Four.

He announced that the channel would easily fulfil its task of taking not less than 10 hours a week from the independent sector and said it was his judgment that they would take not 500 but 750 hours of programmes a year from that sector.

Series of Writers and Places, starting with Jan Morris on Wales, and a series of river journeys planned. The BBC also plans, in its sixtieth year, to mark radio's "golden age" with a special programme; and, still in nostalgic vein, it is trying as an experiment a television strip cartoon based on the Daily Mirror's famous wartime character and morale booster. Jane. "We shall run it for a week at first to see how it goes", Mr Laughton said.

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clear to make way for new models. All sale goods are supported by our own after-sales service. You'll find a choice of easy payments, too. As well as Access and Barclaycard we offer our own credit facilities (written

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ORGANS			
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Kawai 37C	£575	£499	のできる。 からこのでは のできる。 ので。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 ので。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 のできる。 ので。 ので。 ので。 ので。 ので。 ので。 ので。 ので
PLUS £25 of sheet music free	withe	verv	

piano or organ purchased during the Sale. Within our delivery area both free delivery and, for pianos, free first tuning. Please phone for details.

We also offer a complete piano restoration

service. Free estimates (contact F, Firth),

In-home piano tuning: £12 uprights, 9 £15 grands (contact L Hobson). Squire, New Broadway, Ealing W5. Tel. 01-567 1881.

How Mark Thatcher came out of shadows

by Peter Waymark

Mr Mark Thatcher's career has illustrated the advantages and difficulties of growing up in the shadow of a famous parent. Being the Prime Minister's son has obviously helped him in his business and motor racing activities, while putting them under

great public scrutiny.

In Pebruary, 1980, the news that he had agreed to model clothes for a Japanese firm in return for motor racing sponsorship brought protests from Labour MPs in

His mishaps on the race other driver. track have given far wider he has tended to react coverage than they would defensively to the media, have had he been just rarely granting interviews another enthusiastic amateur and declining to give details another enthusiastic amateur and declining to give details headlines. He has been in of Britain's most eligible driver. He escaped unhurt about his company beyond steady demand from combachelors, with constant when his Ford Escort saying that it is involved in panies wanting him to enpupular press speculation crashed at Mallory Park in international marketing. But



protests from Labour textile areas. At first he reacted angrily and said he might leave Britain rather than give up racing. He later announced that he had dropped plans to race in lapan and had accepted British sponsorship, after discussing the matter with his mother, who had not give, him any advice.

Missing: Mark Thatcher and Charlotte Verney

Missing: Mark Thatcher and Charlotte Verney

1979 and last year was he did deny that he was involved in a collision during receiving as much as £40,000 practice on the German for a series of commercials his mother, who had not give, him any advice.

The race of the react of the did deny that he was for a series of commercials in Japanese television for Curty Sark whisky.

Business absorbs three quarters of his time, but his

Cutty Sark whisky.

Business absorbs three quarters of his time, but his parents, Mark Thatcher has promotional and racing actients.

year signed a contract with Prosury Incorporated, the American management firm, which also has several lead-ing tennis players on its Mr Stephen Disson, Prosurv executive, explained:

"He is promotable in the sense that he is a motor racer and the son of Mrs Thatcher. He is also a rather bright and aggressive person, and we like that." On the race track he has a reputation for being a somewhat intemperate driver and what intemperate driver and although he has competed in several classes his record is undistinguished. Two attempts at the Le Mans 24-Hour Race, in 1980 and 1981, both ended in crashes, though in the second his codriver was at the wheel.

Tall, slim and good look vites have caught most of the of the Prince of Wales as one

French Cabinet cuts working week and extends holidays

From Charles Hargrove, Paris, Jan 13

proval.

They will be sollowed by a others which series of others between now and the end of March concerning temporary work; the so-called "solidarity contracts" with the Government which give financial incentives to firms which take on additional labour, professional training for school leavers, the lowering of the retirement age to 60, and extended rights for joining works councils.

The Government attaches static importance to these

great importance to these referms which are designed to satisfy the impatience for change of the ordinary worker in ways that nationarents were frozen to worker in ways that nationarents were frozen to worker in ways that nationarents were frozen to worker in ways that nationare rents were frozen to worker in which was a second to worker in ways that nationare rents were frozen to worker in ways the worker in way the abolition of the death penalty adopted last year

The Cabinet today and precedent since 1936 and proved decrees reducing the first step towards the statutory working week by objective of a 35-hour week an hour to 39 hours, extend in 1985.

In paid annual holidays The reduction of the work-from front to fine seals and week to 39 hours would ing paid annual holidays. The reduction of the workfrom four to five weeks and
exempting from social security countibutions firms further shortening the working
The two decrees were
adopted under the framework
Bill voted by the National
Assembly at the end of last
year which enables the
Government to promulgate security contributions would

Government to promulgate security contributions would social reforms without rebe 75 per cent for firms course to parliamentary approach to parliamentary approach to the security contributions would social reforms to parliamentary approach to the security contributions would be reduced to the security of the security to 38 hours and 100 per cent for those reducing it to 37

> The aim of the cut in the working week is to create jobs; but employers are highly sceptical.

> Whatever its economic results, it shows that the Government is determined to press on with reforms at a steady pace, regardless of pressure from some minis-ters and employers for a

pause.
The Government also has the covernment and has the vast ambition of reconcil-ing landlords and tenants, who have been at war since the First World War when rents were frozen for the

could not.

The decree procedure was adopted to avoid the delays of the normal legislative Palace, described today's decrees as "a social advance without on the death penalty adopted to avoid the delays of the rights of tenants, but it has been toned down under pressure from the country's 10 million landlords.



Indonesia recalls Ambassador to Philippines From M. G. G. Pillel, Kuala Lumpur, Jan 13

The Indonesian Government bas recalled Lieutenant-September soon after his 1962.

General Leo Lopulisa, its appointment in Jakarta.

President Marcus told the General Leo Lopulisa, its Ambassador to the Philip-pines, for consultations after he made a statement in Manila asking President he made a statement in today in a interview with the Manila asking President Manila daily, Bulletin. He Marcos to take formal steps said only an official repudato renounce his country's tion of the claim to Sabah claim to the Malaysian state could bring Malaysia. Philipof Sabah. The ambassador pines ties back to what they

President Marcus told the Kuala Lumpur and Margia meeting of heads of government of the Association of among Assan countries. This South-East Asian Nations is felt most strongly in (Assan) in Kuala Lumpur in Jakarta, and some diplomats suggest that General Lopultwould take definite steps to drop its 15-year-old claim to Sabah.

Asean officials say the strained relations between Kuala Lumpur and Manila have restrained closer links

Why Boris finds hist. marvel kept on ice

Prom Michael Batyon Moscow, Jan 13

Every winter 50,000 people in Sverdiovik, in the Urals, fall over on icy pavements, breaking limbs and suffering concussion, cuts and bruises.
And for the past 33 years a
70 year-old pensioner has
been battling not the
elements but. Sovier bureau.

cracy to produce a machine he claims would reduce this Boris Sysoger mok out a patent on his home made ice-scraper in 1948. His inven-

tion, which beats as it sweeps as it cleans, consists of a mass of whiching blades that choo up ice and impacted snow but somehow manage

neath untouched.

It can be used on paths and pavements, and the head of the municipal street cleaning service testified that it could do the work of dozens of doorniks, the stouty padded. elderly men and women who hally strack the ice with picks and scrapers. He estimated that one dromik, even work-

that one doornik, even working till his shirt ran with sweat, could clear only 150 yards of pavement an hour. Unfortunately Mr Sysoyev's first attempt to mass-produce his technical marvel came to an abunt end when somebody assumed the romestance contraction was Emmet type contraption was a piece of strap, and carted if away. Its inventor was not damted, however. Sverd-lovsk had just founded a scientific research institute
to produce labour-saving
devices of the Urals, Siberia
and the Far East. He built a
new prototype and took it

The seven scientific inventors were not impressed. They said it did not clean pavements to the required degree of sliplessness. He made some refinements added a blade or two allowing the making the source of the state of the said of the the machine to scrape out corners and awkward angles,

and left it for testing.
This went on intermittently for the next 20 years without any conclusive result. Finally, in 1977 the laboratory, which had still to invent. tory, which had shill to invest-any commercially viable dis-vice, reported that the ice-scraper could "in theory" clean pavements, but in view of its inadequacies needed additional refinements.

The Soviet bureaucracy seems to have a peculiar bias against small snow-cleaning machines. Two years ago the machines. Iwo years ago the press recounted an equally plante story of a Muscovine who made a fortune whizing about on a home made morning about on a home made morning work of all his fellow doorniks. He too was mable

to get his invention into production.

At the Soviet party con-gress in February Mr Brezh-nev lamented his country's inability to put industrial movation into practice. And today, on Moscow's icy streets, one could only agree.

Army chief joins coup trial panel

From Richard Wigg Madrid, Jan 13

The army general whom the Calvo Sotelo Government put in charge of Spain's crack Brunete armoured division, stationed around Madrid after last February's comp attempt, has now been nominated a special counsellor to the Supreme Military, Tribunal which will judge accused officers of that division in the forthcoming trial.

rial. General Francisco Carbo-General Francisco Carbonell, formerly a co-director of the combined Spanish-United States general staff, last month ended a temporary posting in command of the 12,000 strong armoured division, created by Franco to dominate this capital.

Troop movements on Madrid from the Brunete division on February 23 provided one of the most dramatic moments of this coop attempt.

Meanwhile General Jose Juste, who commanded the

Inste, who commanded the Brunete division at the time of the coup, has now volun-tarily moved to the reserve. list after being three times passed over by the Soperic ment fur promotion in recent months. He has made this months. He has made this public gesture arguing thus was Left to preserve his honous situation to king Juan Carlos to intervene.

The Government removed him from the Brunete division command but he has pover been charged with military tebellion.

General Inste sublicle.

defended his combact last year, maintaining that when he discovered the compattempt was underway he first played for that and then helped army headquarters to call back Brunete troops. But he admitted he was not able that night to talk to General

he admitted he was not able that night to talk to General Jose Gabeiras, the army chief.

The army's regional commander in Valladolid, north of Madrid, has publicly denied that any of his officers have been meeting extreme right-wing civilians. The denial came after press reports that Sentor Francisco Lains, director, of state settirity at the dinterior Ministry, approved tapping the telephones of the Valladolid cavalry academy.

ARRIGO LEVI How Italy lives with terror

The kidnapping of the American Brigadier General Dozier by the Red Brigades has brought once again to ltaly a large mumber of American journalists interested in the "Italian crisis".

This had not happened for a counter of the count This had not happened to a couple of years, which is a good sign. In the late 70s terrorism and other threats to Italian democracy had allowed many foreign allowed many foreign journalists to enjoy long, working holidays in Italy, which, while being "in agony" as they wrote, remained a very pleasant place to file topy from.

The questions asked today by the inquiring prescours are usually the

newcomers are usually the following: Has there been a following: Has there been a recrudescence of terrorism in Italy after a period of respite? Has the counter-terrorist action by the state failed? And does terrorism remain a serious threat to Italy's political stability?

The answer to the first

The answer to the first question can be given in statistical terms. In the first to terrorism was 27. This must be compared with 25 deaths in 1974 (the year of the bomb against the Itali-cus train), 5 in 1975, 9 in 1976, 10 in 1977, 25 in 1978 (the year of Moro's mur-der), 22 in 1979 and 124 in 1980 (including the more than 90 deaths caused by the bomb at Bologua rail-

than 50 deaths caused by the bomb at Bologna railway station).

These figures tell us that terrorism is still as murderous as it has been during the past five years. Another set of figures, referring to terrorist actions is, however, more encouraging There were 474 acts of terrorism in 1974, 628 in 1975, 1,198 in 1976, 2,128 in 1977, 2,395 in 1978 (the record year), 2,366 in 1979, 1,264 in 1930 and 791 in the first 11 months of 1981.

The number of terrorists, now being held in Jall (either undergoing trial or already judged by the courts) had reached, by the end of October 1981, the imposing figure of 1,496. Of these 1,109 belong to the extreme left (including 444 members of the Red Brigades) and 387 are from the extreme right.

extreme right.

To sum up there has been no recrudescence of terrorism, but no respite either. There has been on the whole less terrorism in Italy in the last two years than there had been in the last 70s, but of a more murgerous kind. Still, the mumber of suspected terrorisms is so high, and so is the number of terrorist actions of all kind, that one can only agree with Signor can only agree with Signor Spadolini, the Prime Minis-ter, when he says: "The war

Must one conclude that the counter-terrorist action by the state has failed? I think that the correct reply would be given to the same question if it referred to Britain's anti-terrorist action in Northern Ireland (although conditions are totally different, the level of terrorism being much lower in Italy, where it has had no real consequences for everyday life). That is to say: the security forces have succeeded in containing the spread of terrorism, but they have not destroyed

but they have not destroyed it.

But while terrorism has not been able to function as a detonator provoking a wide political explosion and the destruction of Italian democracy, the detonator itself has not been eliminated and keeps detonating. Probably we fear the political consequences of terrorism less than we did three or four years ago: perhaps because we have got used to it, or because we no longer believe that it can keep growing. The political forces themselves consider terrorism poses less of a threat to Ralian democracy than it did a few years ago.

years ago.
But terrorism remains But terrorism remains one of the "four energencies" threatening Italian stability, as Signor Spadolini keeps saying (the other three being inflation, corruption and the world situation).

Both President Pertini and Signor Spadolini keep stating that there exist undentable links between Italian terrorism and other subversive groups operating

Italian terrorism and other subservive groups operating in Western Europe, although it is not certain (and in my view still, unlikely) that there exists a foreign "central" guiding Italian terrorism. But there is continuing foreign support for Italian terrorism. Both Permit and Spadoliai have left no doubt that these foreign links are with Libya as well as with Eastern European coun-

Eastern European countries, including the Soviet Union.

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1982

Arrigo Levi last week dis-cessed long-term dangers for Israel from Mr Begin's policies. Lines omitted from his article stated that most independent observers were commissed of this, among them the signatories of a 1981-report to the Trilateral-Commission on the Middle Bast, who wrote: "Indefinite continuation of Israeli occu-pation of the varitories", would be a prescription for



THE TIMES THURSDAY JANUARY 14 1982

Here is the all-new Datsun Stanza - a range of 3-door hatchbacks, 4-door saloon and 5-door hatchbacks, powered by one of the lightest 1600c.c. engines in the world!

The engine is transversely mounted and drives the front wheels. So the Stanzas are roomy - very roomy. And economical very, very economical.

Although they are new from bumper to bumper, they inherit the tough pedigree of the Datsun Violet saloons that have, for the past three years, achieved crushing victories in the East African Safari Rally. Now the all-new

All new

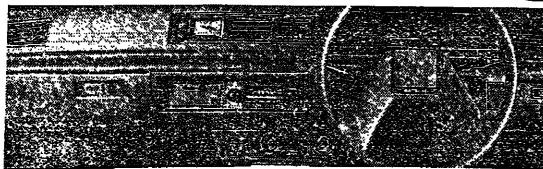
Datsun Stanza is here in a 9-model range of family and sporting cars luxuriously equipped even by Datsun standards. Some models even have power steering, alloy wheels and an automatic gearbox-and there's the option of an electric sunroof.

The prices are extremely competitive - reinforcing Datsun's reputation for giving you exceptional value for money.

ALL-NEW ENGINE-GIVES UP TO 51.4 MPG!

For the Stanza, Datsun developed a special transverse single overhead camshaft engine.

Using a computer, we created a new cylinder block design which gives the engine a unique combination of qualities - it's extremely light and compact and yet it's also uncommonly sturdy and powerful.



NEW STANZA 16 GL STANDARD EQUIPMENT

☐ Two remote control door mirrors ☐ Push-in button heating/ventilation ☐ Advanced display of warning

(3-door)

☐ 2-speed wipers with variable intermittent wipe ☐ Rear window wiper/washer (hatchback)

TO:

□ Interior boot/tailgate release ☐ Interior fuel lid release

Li Lockable illuminated glove box

☐ Warning chime for 'lights left on' ☐ Side window demisters ☐ High grade cloth uphoistery □ Tinted glass DPush-button LW/MW radio □ Quartz clock

Adjustable front head restraints 🗆 Luggage area lamp ☐ Maintenance free battery ☐ Halogen beadlamps

GOVERAMENT FLE CONSEMPTION TESTS, MEG (LITRES PER 100EM) DATAUNSTANZA I GGL 3 DOOR HATCHBACK CONSTANT SAMPH (190EM) HI ST 1 (15-5) TORN DRIVING CYCLE 201(9.7) CONSTANT TSMPH (120EM/H) 38 2 (7-4) DATSUNSTANZA I GGL 3 DOOR HATCHBACK CONSTANT SAMPH (190EM/H) 48 7 (8-6) TORN DRIVING CYCLE 201(9.7) CONSTANT TSMPH (120EM/H) 37 7 (7-4) DATSUNSTANZA I GGL 4 DOOR SALOON CONSTANT SAMPH (190EM III 45-5 (6-5) TORN DRIVING CYCLE 201(9.7) CONSTANT TSMPH (120EM/H) 34 0 (8-3)

☐ Passenger seat walk-in device

The new Stanza's engine weighs just 249lbs - a savings of 20%, and is one of the lightest in its class in the world. This alone dramatically improves fuel economy. But we've also made other changes. For instance, we've found new ways of increasing efficiency by lengthening the piston stroke and adopting dome-shaped chambers

The end result is a true 1.6 litre 100 mph car which can deliver as much as 51.4 mpg at 56 mph.

When you compare with other 1.6 litre cars, like the Ford Cortina, which gives you 39.8 mpg at the same speed, or even smaller engined cars like the Volvo 343 with 42.2 mpg, you realise the exceptional economy that Datsun have achieved with this powerful new engine.

ALI-NEW FRONT WHEEL DRIVE-LIGHTWEIGHT AND PRECISE STEERING

The new Stanza has front wheel drive for sheer "roadability" and crisp, safe driving. Yet the lightness of the Stanza's engine means that, even in a medium-sized saloon, we can use rack and pinion steering to achieve the precise and responsive handling of a smaller car. As an indication of its manocuvrability, the Stanza has a wall-to-wall rurning radius of just 17.7 feet!

ALL-NEW GEARBOX AND TRANSMISSION-MORE EFFICIENT

We've extracted even more economy from the Stanza by keeping the transmission lightweight and simple and fitting it in line with

the engine to avoid energy waste. On all models, 4th gear is an Economy-Overdrive gear. And on most models there's a 5-speed gearbox on which both 4th and 5th are Economy-Overdrive gears!

ALL-NEW SUSPENSION-ULTRA SMOOTH

The Stanza's newly developed dual suspension system is fully independent.

It is designed to work in Compact transverse engine makes the Stanza outstandingly roomy. two ways. On good road surfaces, soft insulators supporting the strut rods absorb all of the fine vibrations. On bad road surfaces, another system comes into operation: severe jolts are led through a series of springs and absorbers and then finally absorbed by rubber bumper pads. The new Stanza gives the smoothest ride that Datsun's computerised technology

ALL-NEW SPACE UTILISATION-MEANS MORE COMFORT

can achieve.

By making the engine transverse and very compact, Datsun have left a vast amount of room inside the car for passengers and luggage.

There's plenty of room in the front and the back. The Stanza is longer and wider inside than either the Cortina or the new Cavalier - yet its overall dimensions are more compact!

ALL-NEW AERODYNAMICS-FOR OUTSTANDING ECONOMY

The compact size of the Stanza's new engine allows us to keep the nose of the Stanza very low and move closer than ever towards the perfect aerodynamic shape.

The Stanza hatchbacks have an aerodynamic drag coefficient of just 0.38 - well below that of many famous sports cars. An important contribution to the class-beating 51.4 mpg at 56 mph of the Stanza 3-door!

1.6 SGL 5-door hatchback

ALL NEW SOUND INSULATION -SEALED AGAINST NOISE

The aerodynamics of the Stanza keep wind resistance and therefore wind noise right down.

The floor and roof both have triple layer insulation.

To achieve a quiet ride, Datsun have paid their usual scrupulous attention to detail. There are over 20 different sound prevention devices on the Stanza – like the flexible coupling at the exhaust or on the soundproof casing round the heater blower.

ALL-NEW FEATURES-AS YOU'D EXPECT FROM DATSUN

The Datsun Stanza is a luxurious family car with a long list of built-in features. These include variable intermittent wipers with choice of 2, 4, 7 or 10 second intervals, push-button heating and ventilation, two remote control door mirrors. interior boot and fuel lid release, maintenance free battery, folding split rear seat and rear window wash/wipe on the hatchbacks, and much more including, of course, LW/MW push-button radio.

5-door 1.6 GL £4,695 Remember too, that these are not extras - they won't cost you a penny more!

£4,485

Superb aerodynamics help achieve up to 5L i mpg.

From £4,485 the Datsun Stanza represents real value for money - the kind of value that is only made possible by the advanced technology and resources of Nissan-Datsun, the third largest car manufacturer in the world.

The Datsun Stanza is a totally new car built to satisfy world requirements and perform reliably in all conditions anywhere in the world.

Come to your Datsun dealer and have a test drive today.

From Christopher Walker, Jerusalem, Jan 13

The Israeli Government see it for what it is — sutonomy." The Israelis have mise in its opposition to the Reyptian demand that the 100,000 Palestinian residents of East Jerusalem should be allowed to vota in the proposed autonomy council for the occupied West Bank and Gaza and not the land on which they live.

Israel defended its position in an official document

autonomy.

Mr Yitzhak Shamir, the sautonomy.

Foreign Minister, rejected opposition Labour Party suggestions that the Government should make conment should make conduct the dispersion of the should make conduct the sautonomy.

Militant Jewish settlers protesting against the dismantling of hot houses in the occupied Sinai soon to be handed back to Egypter and the sautonomy. ment should make concessions to make a quick
autonomy agreement. The
Israelis reject the Egyptian
view that the former Arab

prevented a violent clash
significant of with troops. Sector of Jerusalem is part of the West Bank, emphasizing in all public comments that it

talks. Briefing correspondents, the Israeli official acknowledged that there were essential differences

Pressed to outline the differences, the official said: "It is a basic difference of interpretation. Egypt sees victory. This is the first stage autonomy as a step towards in the process of stopping the self-determination while we withdrawal".

for the occupied West Bank and Gaza strip.

A senior Government official, speaking on the eve of the arrival of Mr. Alexander Haig, the American Secretary of State, said that no change could be expected in the Government's position on the issue, one of the key subjects dividing Israel, and Egypt on autonomy.

Israel defended its position is sued last year by citing international precedents including South Tyrol, the south of Sudan, Greenland and the Faroe Islands. Today, the official denied suggestions that Israel's uncompromising position was intended to set a new pattern for the international definition of autonomy.

is the unified capital of Harvit will now not be dismantled, while those alteractions has deepened pessinism among Western diplomats about America's chances of breaking the deadlock in the autonomy talks. Briefing correspondents, the Issued of Fifteen hot houses at the agricultural settlement of Harvit will now not be dismantled, while those alteraction, under the agreement reached with senior Army officers.

The compromise cannot be autonomy talks. Briefing correspondents, the Issued of Harvit will now not be dismantled, while those alteraction and the senior armines of the senior and the senior armines of the senior and the senior armines of the seni with troops.

Fifteen hot houses at the

hours after extreme Jewish nationalists invaded the site dents, the Israel official acknowledged that there were essential differences with Egypt on the meaning of autonomy. These, rather than discussion of detail, would dominate Mr Haig's hectic round of official meetings.

Pressed to outline the differences, the official said: "It is a basic difference of integrate the said of the stop the said: "It is a basic difference of the stop the said: "It is a basic difference of the stop the said: "It is a basic difference of the stop the said: "It is a basic difference of the stop the said: "It is a basic difference of the stop the said: "It is a basic difference of the said: "It is a basic diff victory. This is the first stage

China fights inflation

Peking runs short of loose change

From David Bonavia, Nanking, Jan 13

adequate supply in this result of the recent round of former capital of China — inflation in China, but it except coinage. For reasons makes nonsense of the curminium coins have almost disappeared from circulation.

melted down and worked into

circulation recently having previously been circulated mainly in Tibet and in Chinese Central Asia, where the herdsmen barely partici-

pate in the cash enconomy.

The use of foreign currency certificates, introduced about three ago to counteract black marketeering, is also in chaos. For almost anything except air tickets and luxury or imported goods, the normal Chinese currency is monly eaten vegetables have readily accepted and almost any shop where one pays in certificates will give change cacies as lotus root and fruits

in 1979.

Nanking has long been a noted centre of black market dealings — its population being familiar with the manipulation of prices and supplies since the time of the Nationalist Government of the late 1940s and one of the most spectacular inflations in the history of money.

the history of money.

After a long period during which the Communist Party and Government insisted that there was no inflation in China, the growth of the money supply has alarmed the authorities to the point where Peking has just imposed draconian price

No prices of anything, anywhere, except at small rural markets, may be raised without official sanction.

This may be necessary as a nobody seems able to rent economic reform, in n, the standard alu-which flexible pricing according to market demand was planned as an essential

Peking has suffered short-ages of some foodstuffs in recent months and this has recent months and this has products costing more than their face value is a matter of speculation. Chinese post office workers became extremely irritable when I asked them about it.

As substitutes for the coins, tiny paper notes with a face value as low as 0.3p in sterling have gone into

At Nanking's biggest de-At Nanking's biggest de-partment store, people are jostling three-deep at the counter to inspect television sets and radios. But, of course, nobody is buying until the day after tomorrow when the price cuts come into effect and when there will be something like a riot.

In the street markets, controls on prices of com-monly earen vegetables have

in normal currency. This has are not controlled, since they resulted in a bigger black are considered inessential.

market than before the certificates were introduced working people taking home are considered inessential.

Pork seems abundant, with
working people taking home
slabs which would be generous for even a Edropean
family. Pulses, sweet
potatoes and other foods also seem to be in good supply. A locally made bicycle can be bought with ease but people wishing to buy the superior make from Shanghai have to

make from Shanghai have to join a waiting list.

The bookshops have improved their stocks and foreign literature is popular. Pirate translations of Death on the Nile by Agatha Christie, The Day of the Jackal by Federick Forsyth and Sir Walter Scott's The Heart of Midlothian are available. There are plenty of foreign language textbooks, particularly English, and there is keen demand for a new handbook of American Slang.



Warsaw hopes for a Solidarity 'without 43,000 officials'

Poland's martial law authorities are increasing their was about to be published exchanged letters efforts to justify the continuing state of emergency with a former government press fresh attack on some of the most prominent leaders of Mr Jozef Barecki, the new details of their communications of the suspended editor-in-chief, is neither a calcium have been released so Solidarity, the suspended independent trade union. In a bitter attack on such workers and intellectuals as Mr Jacek Kuron and Mr Adam Michnik, leaders of the former KOR organization, and Mr Jan Rulewski and Mr

The newspaper said that at a meeting of the Solidarity leadership in Gdansk on the day before martial law was proclained the debate showed that what had started as an that what had started as an organization to help ordinary working people had changed into an opposition political party. Its aim, the paper claimed, was to prepare the working people, against their interests, for overthrowing the socialist system and restoring a bourgeois-capitalist state.

The newspaper said hoped that after these experience the working people of Poland would understand that "the time will come to build a strictly trade union organization, a purely work-ing class organizationj with-out false advisery, without developed regional struc-tures, without 43,000 officials and without political

In what appeared to be an about what is happening inside Poland, Warsaw radio

editor in chief, is neither a hardliner nor a radical re-formist in Polish terms. Instead, he is very much a middle of the road figure with some liberal ideas and high professional standing.

The new newspaper, which will be published from today under the title Rzeczpospolita. (The Republic), is designed to respond to the demand for news about "the work of the Parliament and the Govern-ment and for a platform for dialogue between the authorities and the com-munity", Warsaw radio said. PAP, the official Polish news agency, reported yes-terday that the swollen terday that the swollen Visula river was continuing to flood large areas of farmland in north and central Poland. Although the water

level was beginning to drop, it had started to affect winter grain growing conditions. This could cause further food shortages in due course. After its first officially amounced meeting in Warsaw since martial law was proclaimed, the Polish Politburo yesterday called on all Communist Party officials to step up their efforts to help people in the Plock region, where about 12,000 people ire reported to have been

At the Vatican, the Pope as criticized Poland's martial law regulations for preventing Catholic pilgrims from leaving their country to visit the Holy See. Such a ban was a violation of human

The 16 Western nations who have loans outstanding to Polapd are meeting in Paris today and tomorrow to try to reach a joint stand on future negotiations about the \$26,500m (about £14,000m) which they are owed. In Cologue, Herr Reinhold Stoessel, president of the Dresdner Bank; said yesterday that Poland was not counting on Moscow to pay counting on Moscow to pay off \$350m worth of interest

Instead, the Comecon Bank in Moscow might underwrite the payment, Herr Stoessel said in a radio interview. He added that this possibility had been raised during a recent visit to Warsaw of Western bankers.

ministers meeting informally in Brussels over the next two answer to General Jaruzels-ki's suggestion that Western countries might be asked to receive Solidarity leaders who might be exiled by his military Government. It was made during a meeting with envoys from the EEC on Monday last week.

Mr Leo Tindemans, the Belgian Minister of External Relations, who is president of the EEC Council of Ministers, has since can-vassed all other member states about an appropriate reply, but there has been no agreement on a final text. He ban was a violation of human agreement on a final text. He rights, the Pope said.

The Vatican also disclosed course of the meeting.

Czechs ban wide range of exports

New Czechoslovak regu-lations now prohibit foreign visitors from taking a wide range of foodstuffs and

the country.

The embargo ranges from foodstuffs, cigarettes and drink, to footwear, bedfinen and children's clothes. Other items such as tents, sleeping-begs and sports equipment can be taken out of the country only with special

permission.

Tanjug, the Yugoslav news in agency, said. "The list of commodities on which the ban applies is so long that virtually not a needle can be taken out of Czecho-

Germany and Czechoslovakia introduced measures to restrict shopping expeditions

just adopted a new five-year plan to restore the country's badly weakened economy, and it is clear that for the foresexable future the pro-duction of all but essential consumer goods for the domestic market is going to be given a lower priority. The plan emphasizes, instead, the need to cut back on energy consumption and

nesses. The Prime Minister sai

that the reorganization of external affairs signalled a national effort to pursue aggressively international export markets for Canadian

OVERSEAS

DRIVE BY

CANADA

From Our Correspondent
Ottawa, Jan 13

Canada's External Affairs
Department has been radically reorganized in a moye intended to give greater priority to trade in the development of Canadian foreign relations.

Under a plan announced by Mr. Pierre Trudeau, the Prime Minister, yesterday, external affairs will take over the foreign trade function exercized until now by the Department of Industry. Trade and Commerce. That in turn will take over responsibility for regional economic development programmes in Canada, while retaining its present mandate for industry, tourism and small businesses.

The Prime Minister said

About 25 people took part in the meeting at which the defence costs were discussed. According to Mr. David Carcording to Mr

Diplomat killed Beirnt.— The bullet-riddled body of an Algerian diplomat was found in south Beirut. Security forces said that he was Mr Rabeh Kharwa, a counsellor, in his fifties.

During the past week along The Washington Past has carried three separate stories daily was supported by the carried three separate stories daily was supported by the carried three separate stories practicum, making her appropriate to Taiwan and urban enterprise tones which were supposed to have been kept secret. Although same secret. Although same secret along the was supported by the carried daily was supported by the carried daily was supported by the carried daily was supported by the carried three separate stories prominent a foregone continuous training the candidate was supported by the carried three separate stories ruling Communist Party praesidium, making her appropriate to Taiwan and urban enterprise to the carried three separate stories praesidium, making her appointment a foregone continuous training communist. Party praesidium, making her appointment a foregone continuous training communist praesidium, making her appointment a foregone continuous training communist. Party praesidium, making her appointment a foregone continuous training communist. Party praesidium, making her appointment a foregone continuous training communist praesidium, making her appointment a foregone continuous training continuous traini

supposed to have been kept supposed to have been kept secret.

Although some officials and many journalists believe this Administration to be less prone to leaks than previous ones an enraged President has now ordered a crack-down, vowing to use "all legal methods" to investigate government officials who may have disclosed classified information to the media.

Last night the President claiming that unauthorized disclosures of classified information had become a "problem of major proportions with the United Sistes Government" issued a statement setting out ground rules to end what he described as "a virtual haemorrhage of leaks."

The directive, based on recommendations by Mr William Clark, the new national Breweries on Amin's or security adviser, applies to Breweries on Amin's or

President

moves to

plug the

leaks

From Nicholas Ashford Washington, Jan 13

President Reagan believe

his Administration is the leakiest in history. Since his manguration he has regularly complained to his senior officials about the way amount of the manual thorized and sensure mat-

the newspapers. But apper-

ently to no avail.

During the past week alone
The Washington Past has

staff, employees of the state and defence departments and

and derence departments and the intelligence community. In finure government employees who plan to dis-cuss classified information with reporters must obtain prior permission. After the interview, they must issue a report recording the subjects discussed and all information provided to the media rep-resentatives:

The directive also calls for a reduction in the number of slovakia".

Similar restrictions have been imposed in recent months by other East European countries to ensure that their limited supplies of consumer goods are available or derived their own people, and are sent their own people. consumer goods are available for their own people, and are not depleted by visitors from neighbouring countries what disciplinary action where shortages may be even more severe.

Refere the Polish military details would be worked out

later
Tust how determined the
administration is to prevent
leaks has been illustrated by leaks has been illustrated by
the fact that Mr Frank.
Carlucci, the Deputy Defence
Secretary, took a lie detector
test as part of a Pentagon
investigation tooks determine
who took The Washington
Post last week about a secret
report dealing with future
defence spending. This report said defence costs could
be as much as \$750,000m
more than present estimates.
A Pentagon spokesman A Pentagon spokesman said today that other senior Pentagon officials were also nudergoing lie detector tests.

About 25 people took part in the meeting at which the

NEWS IN SUMMARY

Yugoslayia premier is a woman

Belgrade Yugoslavia's collective presidency has nominated Ms Milka Planinc. the Croatian Communist Party chief, to serve as the new premier, the first woman erial has found its way into to head a Yugoslav govern-

ment. The official news agency Tanjug said that her canditions at various levels, all led by the communists, will discuss Ms. Planine's candi-

economic war" to its orig-

"economic war" to its original owners — most of them.
Asians now living in Britain,
India, Canada and other
countries.

He fold a group of directouts of East African Breweries, the Nairobi company
which hist its controlling
shareholding in Uganda
Breweries on Amin's orders
in 1972 that he would
wescome their return to
rebuild the Ugandan beer
industry.

Seoul publisher faces death

Seoul. — The death sen-tence has been demanded by the prosecution for Mr Lee Tae Bok, a South Korean publisher, who is charged with violating the national anned foreign books, mostly

students league and contional democratic labour ers leaguewith the aim of overthrowing the Government, of disseminating the ideals of communism throughout the country. He demes the charges. Twenty-five other people appeared in court with him.

Soviet dissident 'm danger'

Moscow. Dr Andrei Sakharov, the Söviet human rights /leader, has given a warning that the health of the imprisoned dissident Dr Yuri Orlov is in danger and has appealed for his release. In an open letter to the European security review conference in Madrid, due to reconvene on February 9, Dr Sakharov said that Dr Orlov, camp prison for months and "his health, and perhaps his life, are in danger".

(18°)

Wedding bliss discouraged

Peking - Peking resreking. — Peking restaurants are encouraging couples to cancel elaborate wedding banquets at the Chinese new year later this month in a drive against extravagance, according to the Peking newspaper, People's Daily.

National holidays are a fargurate stime for weddings.

favourite time for weddings and many couples have elaborate banquets despite endless official calls for frugality.

Christiaan Barnard divorced again

Cape Town. — Mrs Barbara
Barnard, the wife of the
heart transplant pioneer, Dr
Christiaan Barnard, has been
granted a divorce in the Cape
Town Supreme Court.
The couple, who have two
sons, were married in 1970
soon after Dr. Barnard's first
marriage ended in divorce.

Man boasted of killing Briton, prosecution says

From Our Correspondent, Baltimore, Jan 13

An 18 year old man the defendant, Mr Michael J. charged with murdering a Brown made to the police Briesh aniques dealer here four days after the killing, in last summer bragged to his which he said that he and his friends about the crime, and three companions intended to only later tried to cover it up, rob Mr Rouse but not to kill the prosecution told a jury him.

last year.

the prosecution told a jury him.

The repeated again and again to anybody that would listed how he had attacked and killed the Englishman in our city." Mr Stephen Tully, the prosecutor, said on the first day of trial of three men accused of killing Mr Phillip A. Rouse of Somerset.

Mr Rouse was shot as he chased a thief who had grabbed a shoulder bag from his 21-year-old girl friend as the couple and another English companion walked in a stylish Enitimore neighbourhood early on August 22 last year.

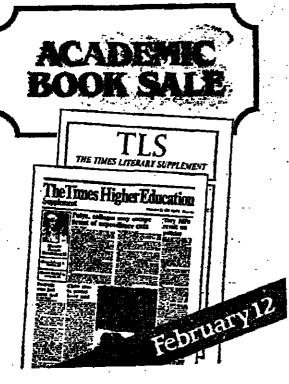
The Bullivant also of Somerset, reconstructed the crime for the jury of nine women and three men. A young man on a bicycle grabbed her handbag, and Mr Nigel Lawrence, a 34-year-old English autiques last year.

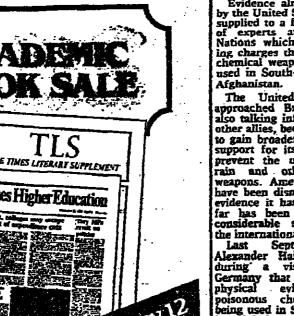
Thillip checked to see if I

last year,

Several days after the widely publicised killing the defendant sold the gun, a 22 could cut off the man on the acquaintance in order to get rid of the evidence. Mr Tully told the jury.

The prosecution claim him on the ground and shot him? she said.





100 mg

British aid sought on yellow rain

From Our Own Correspondent Washington, Jan 13

The United States has asked Britain to assist in the collection and analysis of evidence that lethal chemical weapons are being used in South-East Asia and Afghanistan. Mr Richard Burt, director

Mr Richard Bort, director of the State Department's bureau of politice-military affairs, said that British scientists and aid officials were working in Thailand were working in Thailand and other parts of South-East Asia to which refugees from Laos and Cambodia had fled. It was possible they would come across evidence of the use of these chemicals, known as yellow rain. He added that British research establishments could also assist in analysing some of the samples of the highly poisonous substances which have already been discovered on trees and rocks in the region.

region.
America has accused Viet-America has accused viet-nam of using chemical agents in remote parts of Laos and Cambodia. It also maintains there is compelling evidence that these chemical weapons are being manufactured and

supplied by the Soviet Union.
Evidence already collected by the United States has been supplied to a four-man panel of experts at the United Nations which is investigating the property of the Control of the United Nations which is investigating that Soviet and the United Nations which is investigating the Control of the ing charges that Soviet-made chemical weapons have been used in South-East Asia and

other allies, because it wishes to gain broader international port for its campaigner event the use of yellow in and other chemical eapons. American officials ave been dismayed that the vidence it has produced so ar has been greeted with considerable scepticism by the international community. Last September, Mr Alexander Haig announced during a visit to West Germany that America had physical evidence that poisonous chemicals were being used in South-East Aia poisonous chemicals are p support for its campaign to prevent the use of yellow rain and other chemical

duction, stockpiling or traus-fer of toxic weapons.

Swapo says Walvis Bay is part of Namibia From Stephen Taylor, Salisbury, Jan 13

Walvis Bay was an integral of a settlement in Namibia part of Namibia (South-West began in London today Africa) and the South West between leading American Africa People's Organization would fight for it in the same way that it is fighting for the rest of the disputed territory, Mr Sam Nujoma, Swapo's president, said today.

Speaking at an airmost Affairs and Mr Brand Familia.

Speaking at an airport press conference at the end of a one-day visit during which he had talks with Mr Robert Mugabe, the Zim-babwe Prime Minister, Mr Nujoma dismissed the history which has left the strategic

which has left the strategic Atlantic port a South African enclave. "We are fighting to liberate each and every inch of Namibia including Walvis Bay", he said.

He said Swapo had still not formulated its response to the latest initiative by the western "contact group" adding, "We are consulting the frontline states, Nigeria and the president of the and the president of the Organization of African Uni-

at bolstering support among frontline states for Swapo's negotiating position and Mr Nujoma left declaring that he was "very happy with fruitful discussions".

Talks aimed at reaching an agreement on the first phase

retary of State for African Affairs, and Mr Brand Fourie, Director-General of the South African Department of Foreign Affairs, are continuing their discussions tomorrow. Each called separately on Lord Carrington, the Foreign Secretary, today.

The five nations in the Western "contact group" — the United States, Canada, Britain, France and West Germany, last month pre-sented their revised pro-posals for phase one, which deals with constitutional

Before the latest talks opened both Pretoria and Swapo appeared to have objections to the Western recommendations for elecobjections to the Western recommendations for elections to a constituent assembly. The key proposal is that half the seats should be filled by proportional representation, and half by candidates elected directly from single-member constituencies (on the British model).

Canberra job for judge not the Prince

used in South-East Asia and Afghanistan.

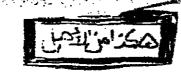
The United States has approached Britain, and is approached Britain, and is also talking informally to its other allies, because it wishes Fraser, the prime minister announced in Canberra yesterday. The British-born indge, who is 58, will succeed Sir Zelman Cowen, who has

strong objections by the Australian Labour Party and fears that Prince of Viales

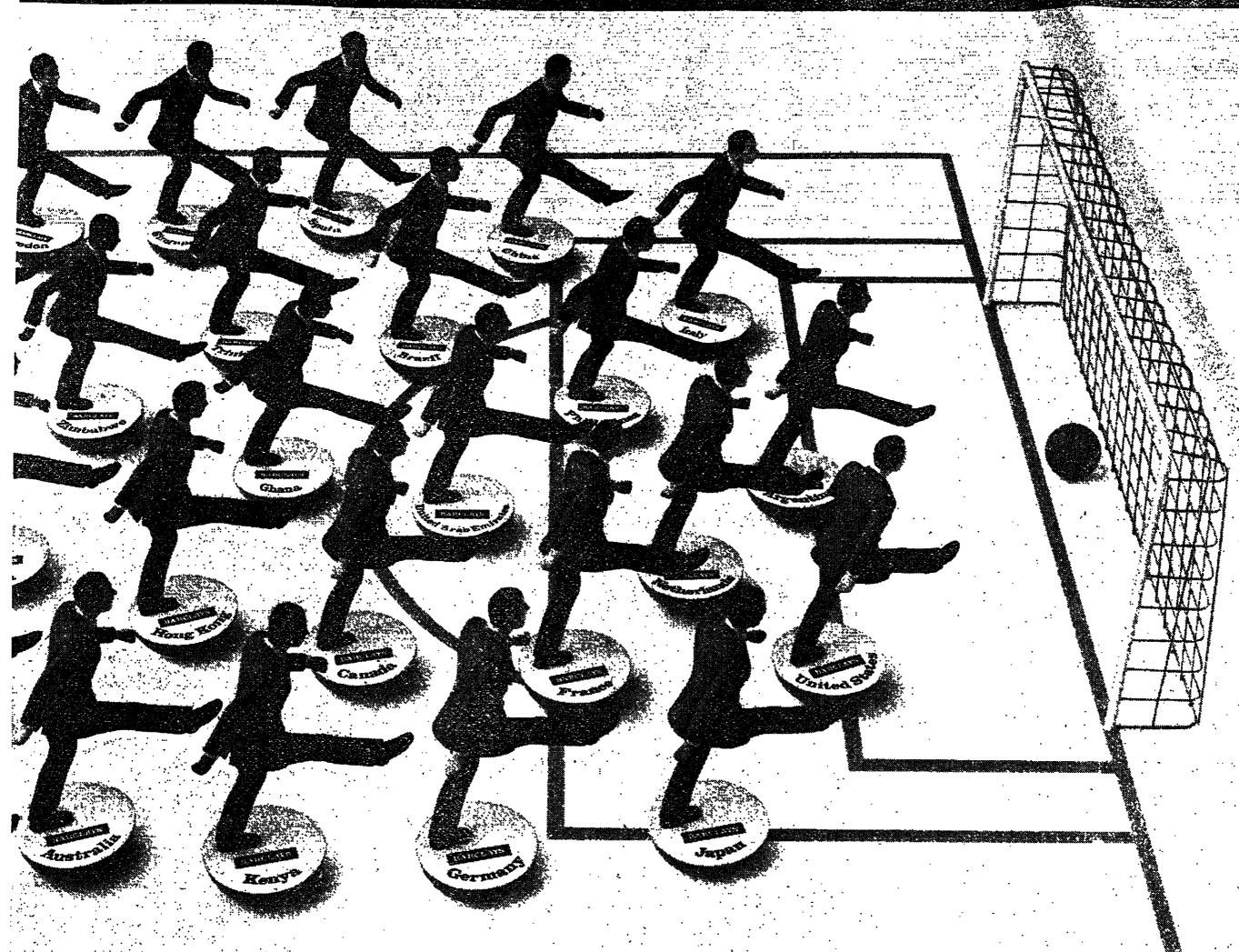
☐ Sir Zelman Cowen, is to be the new Provost of Oriel College, Oxford. He is ex-pected in Oxford in Septemb-

did not find someone within the 90 days as required by





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BARCLAYS International

PEOPLE WHERE IT COUNTS.

A master impersonator's epitome of the 1980s:

Freed Briton describes ill treatment in jail

Mr Steven Kitson, the Briton arrested while on a visit to South Africa to see his jailed father, said yesterday on his return to London that he had broken down and cried" under what he called brutal interrogation and mental torture by South African security police.

He said he was kept in solitary confinement for five days, and for the first 24 hours was interrogated con-tinuously, while forced to stand upright without sup-port. He was slapped about the face until his nose bled, shaken so violently that his head banged against the wall and had buckets of cold water thrown over him to keep him awake.

"On about the fourth day I broke and cried in front of them," he said. "They were them," he said. "They were asking me most personal details about people mentioned in my notebook, and for anything I knew about my mother's activities with the African National Congress. I mentioned the names of two people who I thought might be involved."

Mr Kitson said that "with prison where his father had been held for the past 17 years, and to make a sketch

"During a medical examin-The street of the street of th did not want to leave me with

UN doubles

From Charles Harrison

Nairobi, Jan 13

stocks from last year's

harvest are exhausted in some parts of Karamoja.

operation for Karamoia was launched to combat the famine caused by several years of drought and the deplation of the combat and the deplation of the combat and the deplation of the combat and the co

depletion of livestock herds

by a combination of drought and inter-tribal raiding. Medical teams and food

distributon schemes were organized with aid from

many countries, including

Last year, the aid agency was able to reduce food distributions after the harvest had created reasonable food stocks. But Unicef

said recently that the stocks

were running low in some areas, so that emergency

The United Nations World

Food Programme is support-

ing food-for-work schemes, and Unicef and several

voluntary agencies are distributing food twice a

week to undernourished children at 18 centres in

Karamoja. Unicef says that

about 5 per cent of the children examined are below

made to prevent a return to

the conditions of 1980, when

The most serious food shortage is reported from Dodoth county, northern Karamoja, where 19,000 families are receiving foed. Relief food programmes will have to continue for at least upother six months.

another six months, until the

acceptable nutritional levels whose funeral he helped to and every effort is being arrange. He also gave help to

children were dying in large numbers in Karamoja.

The most serious food Christian, to have questioned

relief should be resumed.

In 1980, a large-scale relief

many of them

tons of food, mainly grain, the "homelands this month because local called) of Venda.

Karamoja

food relief



Mr Steven Kitson: Wept under interrogation.

South African homeland' repression

Torture and murder

reported in Venda

From Michael Hornsby, Johannesburg, Jan 13

reports here of the detention. Venda went "independent" in 1979, after the examples of

called) of Venda. To the north, across the In the past two months, at Limpopo river, lies Zimbabwe

least 15 people have been and to the east, separated detained, and one of them, from Venda by the Kruger Mr Tshifhiwa Muofhe, died National Park, lies Mozambi-

evidence of torture.

Another missing Venda citizen and member of the local Lutheran church, Mr D.

Total Lutheran church, Mr D.

whose tarrange. He also gave help to the dead man's widow. Mr liberal English-language press but in generally progovernment Afrikaans newsgovernment Afrikaans newsgovernment which usually lean

grounds.

The Bantustans are an integral part of the apartheid strategy of eventually turning all South Africa's 20 million blacks (about 75 per cent of the total population)

posmive account of developments in the "homelands".

This suggests that Pretoria, though hardly in a position to lecture anyone on respect for human rights, may be growing disenchanted with its protege.

been held for the past 17 beaten until he was scream-father looked physically years, and to make a sketch ing like a three-year-old and was mentally alert of it while waiting to visit his child. It is the most horrify- I last saw him," he said. ing sound I have ever heard.

"It was purely for a personal, private record. I seven or eight people were wanted to show my children what it was like to visit my father in jail. I did not think I was breaking the law at all".

He believed that a campaign organized in Britain on his behalf, and the interest of the press had saved him from worse treatment.

In was purely for a "On another occasion, seven or eight people were being processed after arrest kitson's photographs and sketches had been intended as part of a plot to help jailed members of the African National Congress to escape. Mr Kitson denied that anyone than 16 or 17, I saw a warder smash across the face and then kick his legs away from underneath him so that he landed very heavily on the concrete floor."

united Nations agencies are doubling their food distribution in Karamoja, north-east Uganda, to avert a return of the famine which in 1980 killed thousands of tribal "homelands" with land area of the country.

A spotlight has been into citizens of 10 murgendent trained on one of the murdent tribal reserves which, between them, occupy no more than 14 per cent of the land area of the country.

Venda went "independent"

The United Nations Children's Fund regional office in Nairobi said today that it would distribute 1,600 tons of food mainly the "homelands" to the

in prison last November only two days after his arrest. He

and, according to informed sources, the district surgeon

who conducted the post mortem examination found evidence of torture.

Ralushai, is also said to have died recently at the hands of

security police, though this

report has been denied by Brigadier T. R. Malaudzi, head of Venda's small army-

cum-police force.

Four of the nine full-time

Lutheran pastors in Venda — Dean T. S. Farisani, the Rev.

N. Phaswane, the Rev A. M. Mahamba and the Rev P. M.

Phosiwa — are among those being held. And Pastor Faure

Louw, a missionary of South Africa's Dutch Reformed

Church, was recently deported after eight years in the territory.

Pastor Louw's offence, it is believed was his friendship with the late Mr Muofhe, whose funeral he helped to

had not been in ill-health, on

solitary I saw a man who had He had been in South stupid to have taken photobeen detained being taken to Africa since Christmas Eve, graphs of the outside of the the cells and afterwards I and had made visits to his being taken to Africa since Christmas Eve, graphs of the outside of the cells and afterwards I and had made visits to his being savagely father before the arrest. "My heard him being savagely father before the arrest. "My father looked physically well and was mentally alert when

The South African authorities had alleged that Mr

the Terrorism Act and who It had been his ambition to may have been hanged or

may awake on my bunk looking at the two bricks may marks.

"On my second night in years ago.

may awake on my bunk looking at the two bricks beyond my feet to see the words 'Don't worry' scratched there'."

miles in north-east Transvaal.

Almost entirely dependent

on Pretoria financially, Venda is politically one of the least legitimate of all the "homelands". President Mphephu, who is semi-literate, and his ruling party have twice been defeated in general elections but retain

of the South African police and 42 nominated tribal

Mr Baldwin Mudau, a

Soweto-based (social scien-

tist) and leader of the main opposition party, which op-posed the territory's "inde-

pendence", died on New Year's Day and rumours are

already circulating that his

death was not due to natural

followers not in prison boycotted the opening ses-

sion of the assembly after "independence". Nepotism is

rampant — almost all Venda's Cabinet members belong to

the Ramabilane clan, Interestingly, the most critical reports about Venda

papers, which usually lean over backwards to give a positive account of develop-

Mr Mudau and those of his

Rabbit is Rich **By John Updike**

(Andrė Deutsch, £7.95)

In 1961, just after Eisenhower and with Kennedy just settling in, Harold C. (Rabbit) Angstrom made his first appearance, as an articulate local basketball ace subsiding under protest into domesticity and ordinary work, in Rabbit Run. Ten years later in Rabbit Redux, soon after the invasion of Cambodia, the the invasion of Cambodia, the shootings at Kent State and the moon landing, Rabbit, despite his doggy loyalty to superannuated ideas, gets swept into the rubbish-chute of the times, with a radical black on the run and a spaced-out girl. Now, just over a decade later still, a kind of Hegelian synthesis has been achieved. Rabbit is head salesman at the Toyota head salesman at the Toyota dealers founded by his late father-in-law. His marriage has settled down after all its convulsions of infidelity, drink and death. He is happy and he knows it. The only grit in the soup is his lamentable son. The Rabbit novels are John

and describer. What they amount to is a social and, so to speak, emotional history of the United States over the of the United States over the last 20 years or more, the period of Rabbit's and his creator's conscious life. The action of these novels pops up from time to time above the surface of a marvellous, memory-awakening flood of public detail: candy bars, automobile models, dance automobile models, dance steps, clothing styles, favoured foods, attitudes to public events, modes of amorous behaviour, catch phrases, even the last faint Time-borne reverberations of happenings in the life of the mind.

Rabbit is Rich Rabbit is thinking about the new house he and Janice have just bought (having built up the

remarkable gifts as observer just of his life, but of his just of ms me, but of ms times, of how other people lived, not just of what happened to him.

This is a long book and a wordy one, in the best sense. as when one says of a chocolate pudding that it is

rich. Rabbit's thoughts and utterances frame themselves at a high rhetorical level: most of all, perhaps, when he rehearses to himself and others the lavish professional others the lavish professional minutiae of the work of an accredited Toyota dealer—the precise fine print of trade-ins, part-replacement, loan financing, shifting last year's models. Even at his briefest and most aphoristic Rabbit resonates, for example: "the great thing about the dead, they make

We are lowered as in a diving bell into the thickly populated swirl of Rabbit's deposit by way of a nice little populated swirl of Rabbit's operation with Krugerrands inner life, as he peeks down and silver). There is a den. the front of his friends' inner life, as he peeks down and silver). There is a den. the front of his friends "He thinks in this room he might begin to read books, comments on a medicine instead of just magazines and newspapers, and begin to learn about history, say." The fact is that Rabbit is an command who once had a thirty chart with the second-inhistorian already. Everything now forgiven affair with he sees as he drives on test- Janice. It is a remarkable trips round the decaying city piece of impersonation kept of Brewer brings up a up without noticeable flag-fountain of recollection, not ging for nearly 500 pages.

this Rabbit will run and run John Updike shares with pretty sovere battering;' rare-Mike Yarwood a certain by a night is missed at home and there is energy for some he were one of those grey shiny pads on which a shopping list can be written and then with a quick movement erased. More sub-Barbados. stantial novelists are impersonators rather of the Eric Morecambe order, absurdly discernible as themselves behind the threadbare Cag-

ney formula. It is this that makes him a less than satisfactory book reviewer. He turns his hand to anything in the New Yorker, but only because his wrist is too loose. It is enough for him that literature, or the world, is there; he is not in business to do anything about it. In his third incarnation Rabbit is treated in a kindly way. In almost any other novel that Krugerrand deal would have come more or less disastrously unstuck. But, as he and Janice stagger

under the weight of the coins on the way to the bank vault they are not mugged. When he sells, Rabbit, like the Rothschilds, sells a little too soon. Janice still drinks a bit but it keeps her very amiable and she has retained her appearance. That is just as ell since in Rabbit's circle the iron gates of life take a

quite tasteful wife-swapping keeping one up all night, as the phrase is, during an exhausting week's holiday in

Two sorts of pressure bear down on Rabbit's comfort-able life as chief salesman at Sprinja motors and a member of the Flying Eagle Country. Club. The first and more identifiable is exerted by his awful whining son, Nelson, a drop-out from Kent State (no longer in the swing of things), complaining his way into the Toyota business and smashing up cars, sometimes out of sheer pique, every 80 pages or so. More general and in the background is the steady dehumanization of Rabbit's familiar world which at least corresponds to the only vestigially human qual-ity of poor Nelson. The demands of the car, the computer, the franchise system have all worked disintegrate the individuality and human scale of the southern Pennsylvania in which Rabbit grew up and has now found a sort of peace.

Anthony Quinton

Cadre of fighting monks

The Knights Templar By Stephen Howarth

(Collins, £9.95)

Updike's best since they give the fullest scope to his

The crusades produced three brotherhoods of fighting men: the Hospitallers, the Teutonic Knights (to whom Chaucer's "verray, parfit gentil knyght" may have belonged), and the Knights of the Temple of Solomon in Jerusalem. But of these it has always been the Templars who have caught the popular imagination, not only for their legendary valour in battle (and the famous white surcoat with the red cross on the shoulder), but also be-cause of the mysterious circumstances of their sud-den, vicious suppression at the beginning of the four-

teenth century.
As an order of fighting monks, sworn to vows of poverty, chastity and obedience, the Templars
flourished for nearly 200
years. Their original Rule
was laid down by St Bernard
of Clairvaux, to be a model of
chivalry and fraternal service in the Holy Land. But by the end they had become a vast secret society, a state within states; with property hold-ings stretching across Europe from Ireland to Hungary, and with an interbanking network which provided credit (plus interest) to princes and kings all over Christendom. Their suppression in France was achieved in a single night of mass arrests in 1307, followed by a series of spectacu-lar show-trials and confessions, which found the Order guilty of heresy, blasphemy, sodomy, and idolatry - a revelation of the nightmares of the medieval mind. A brilliant chapter on the psychology of their persecution appears in Norman Cohn's Europe's Inner

man Cohm's Europe's Inner Demons (1975).

Stephen Howarth does not go too deeply into these dark waters. He has previously written a book on the Koh-i-Noor Diamond, and he prefers his history to be bright and picturesque. He has obviously followed many of the Templar campaigns over their "exotic" ground, and

his set-pieces, such as the battle of Hattin (possible site of the Sermon on the Mount) in 1187, and the final tragic defence of the port of Acre in 1291, are colourfully managed. He favours the grand, epic figures of St Bernard, Pope Urban, Saladin, Richard Coeur-de-Lion, or the sinister Philip the Fair of France, to the puzzling, often anonymous brothers of

the Temple. Many problems are left unresolved. What was the enormous and enduring spiritual attraction of the elite Templar ethic? How far was the Order really corrupted from within, or simply de-

forces of growing European nationalism? Most of all, how have the Templars continued to be associated with so many half-mythic, half-historical phenomena: the Assassins, Prester John, the Angels of Mons, the True Cross, the Turin Shroud? Their story is more than an ancient history of battles and persecutions, and their influence runs deeply through the more shadowy, gothic zones of English literature, from the ghost stories of M. R. James to the Langue d'Oc novels of Lawrence Durrell.

Richard Holmes



scholarly Drawing in Early Renaissance Italy (Yale, £15)

Orgone recital

Record of a Friendship The Correspondence Wilhelm Reich and A. S. Neill, 1936-1957 Edited by Beverley R.

Placzek (Gollancz, £12.50) A. S. Neill, the Scottish

educationist and founder of Summerhill School, and Wilhelm Reich, the Austrian ex-psychoanalyst, ex-communist, and inventor or discoverer of vegetotherapy and the "science" of orgonomy, first met in 1936 in Osio, where Reich was a member where Reich was a member of the audience at a lecture Neill was giving. When Neill heard this, he said "Good God, I was reading his Mass Psychology of Fascism on the ship" and telephoned him at once. They dined together, talked far into the night, and became fast friends immediately. became fast friends immediately. "We sat talking till late and I was fascinated. Reich, I said, you are the man I have been searching for years, the

man to link up the soma and the psyche. Can I come and study under you?" Reich's immediate reaction to Neill is not on record, but Neill did study under Reich intermittently for the next two years, until Reich mi-Reich's death in 1957. The letters he received but also carbon copies of all letters he

letters to Reich really are personal letters, full of details about his private life, about running his school in wartime and post-war England, about the lives of sermons, self-justifying and self-congratulatory. "Why should I go around braggin. mutual friends, while Reich's to Neill are all too often self-congratulatory. "Why should I go around bragging

that at my 40th birthday I was hailed at a dinner as another Karl Marx, Sigmund Freud, Darwin, and Galileo taken together? I don't find much joy in such comparisons, since I am only Wilhelm Reich and that is sufficient for me". It was Neill too who took

evasive action to ensure that their friendship was never threatened by scepticism as to the value of the various "scientific" experiments by which Reich persuaded him-self that he could see and measure orgone energy (alias libido, love and cosmic en-ergy), that he could predict and alter the weather, that he possessed "the secret of cancer, rheumatism, tuberculosis, neurosis, psychosis and many other diseases which devastate social life and even bring about wars. Although the editing of the

correspondence seems to be competent, and the Introduction sets out the careers of both Reich and Neill accurately, British readers are warned that the book as a whole is designed for the American market and assumes prior knowledge of and sympathy with—Reichian ideas. I doubt whether anyone will make much sense of the last 100 or so pages, if he does not already know about grated from Norway to the United States, and they remained close friends until read elsewhere about how he read elsewhere about how he fell foul of the American law present volume, which spans and died in the psychiatric the whole period from 1936 using of a penicentiary where the whole period from 1936 wing of a penitentiary where to 1957, is based on letters he was serving a sentence for taken from Reich's file. he was serving a sentence for Apparently Reich was in the habit of keeping not only all Introduction is tendentious. It quotes from Neill's autobiwrote, so the correspondence ography: "A great man had be reasonable complete It is died in vile captivity. I think is reasonably complete. It is Reich will not come into his indeed the Record of a own as a genius until at least own as a genius until at least Friendship.

But, it must be said, it was three generations from now. Neill not Reich who had a gift for friendship. Neill's love him. "Neill did indeed end love him." Neill did indeed end chapter 4 of his "Neill, Neill, Orange Peel" (New York 1972; London 1973) with these words, but he also said things about

Charles Rycroft

Fiction

Weights and Measures By Joseph Roth (Peter Owen, £7.50)

The Ruling Passion By Stephen Barlay (Hamish Hamilton, £7.95)

Weights and Measures, have their scapegoats. Dani written in 1937, is the third of Joseph Roth's remarkable choice. As Dani's short and novels to be translated into novels to be translated into joyless life is revealed in English. A subtle blend of flashback, the choice befantasy and fable, it is comes less simple. His only witten with the melancholy allies in his adventures are wit and grace of Gogol. Eibenschutz, a simple ex-ar-tillery man, is appointed as Inspector of Weights and Measures in a corrupt and shadowy area of Austro-Hungary, close to the Russian border. Cuckolded by his wife, Eibenschutz is tormented by desire for a ravishing — and unravishable — gypsy girl. She is, however, prepared to share the bed of his enemy, Jadlowker, an unprincipled profiteer whose tavern is the centre of all local smuggling activities. Lust and despair drags the unhappy Inspector down to an abased and predictable end. A short sad tale, it is too thoughtful a novelist to Measures in a corrupt and shadowy area of Austro-

end. A short sad tale, it is too thoughtful a novelist to end. A short sad tale, it is too thoughtrul a novenst to rescued from gloom by be content to write merely a passages of electrifying good and exciting story. His beauty, and by Roth's theme is not the morality of shrewdly ironic view of terrorism, but the morality underlying all human action. Austro-Hungary is also the setting for The Ruling Pas-

words, "to remain on the sidelines, the detached oban impressive and unlooked-for novel from Stephen Barlay, who has until now written businessserver, commitment". But when his like thrillers. A thinly-veiled parable of persecution in an brother, a key political figure, is captured by miliauthoritarian society, his new novel successfully treads tant extremists, Raimundo's passivity becomes a deliberate withholding of knowledge and he is forced to re-exam-

> Massie skilfully juggles the point-of-view between the Svevoesque Raimundo, forever lusting for his nubile niece, Bella, forever postponing his monograph on the Emperor Augustus; Tommaso, the aristocrat-turned-terso, the aristocrat-turned-ter-rorist who dreams of becom-ing Caesar and finds himself a Cataline; and Christopher, a cynical journalist looking for a scoop, capable only of understanding "action for the sake of action". There are no heroes, only comba-tants in a deserted arena. The recognition towards which Massie inexorably drives them is best summed up by Raimundo:

"We are all of us of course gladiators, and all our triumphs merely postpone the moment when we salute Caesar as we realize that we are about to die.

Finally, to Ethiopia in the 1860s. When the Emperor Dies (Hamish Hamilton, E7.95) is a splendid first novel

Crime

The Green Frontier By John Buxton Hilton (Collins, £6.50)

Wycliffe's Wildgoose Chase By W. J. Burley

(Gollancz, £5.95) With every year that passes crime novels veer more and more towards being just novels. It is a trend both exhilarating and dangerous. Exhilarating because it means that such books are often saying things of more and more interest, things that seem to apply ever more to the dilemmas we live through. Dangerous because through. Dangerous because if the pure-novel element becomes too preponderant the plain excitement that crime fiction engenders, an excitement that makes readers want to read, may be

Two examples of fuglemen, perhaps, for 1982. First, Buxton Hilton with his regular sleuth, Superintendent Kenworthy (now retired), Dies (Hamish Hamuton, £7.95) is a splendid first novel by Mason McCann Smith who, if not quite in the class of J. G. Farrell, manages to combine a gripping reconstruction of the British invasion of Ethiopia with an intelligent study of the underlying similarities in apparently disparate civilizations. McCann's only serious fault is a tendency to lapse into the sloppy: I never yet—thank God!— met a man who "swung his filmy eyes" at me.

Miranda Sevinour

regular sleuth, Superintendent Kenworthy (now retired), buried in the past, in those extraordinary days in just occupied Nazi Germany. All the material here for the who-done-it tug, or more precisely the what-happened then tug. Fine. But ominously the superintendent Kenworthy (now retired), buried in the past, in those extraordinary days in just occupied Nazi Germany. All the material here for the who-done-it tug, or more precisely the what-happened when tug. Fine. But ominously the superintendent Kenworthy (now retired), buried in the past, in those extraordinary days in just occupied Nazi Germany. All the material here for the who-done-it tug, or more precisely the what-happened when tug. Fine. But ominously the what-happened then tug. Fine. But ominously the what-happened when tug. Fine But ominously the whot-done-it tug, or more precisely the what-happened when tug. Fine But ominously the whot-happened when tug. Fine But ominously the what-happened when tug. Fine But ominously the what-happened when tug. Fine But ominously the whot-happened who-done-it tug. Fine But ominously the whot-happened when tug. Fine But ominously the whot-happened who-done-it tug

in, leaving readers sometimes bewildered, as does his tendency to lapse into prose bristly as a doormat, densely saying much but hard to move through. Yet that strongly realized background of 1945 Germany is worth more than a little effort.

A not dissimilar process happens in Burley's book, a nearer-home investigation by his sleuth of old, Superin-tendent Wycliffe, in a little Cornish resort. Here there is a division between the simple murder mystery and the more complex mystery of man's personality. Wycliffe digs away at both in much the Maigret manner. But when Maigret unearthed a past he did so with a clarity of author's vision that has seldom been equalled. His least action became so vivid you were compelled to read. Burley's treasure from the sea of the past comes up, alas, rather weed-obscured.

The Case of the Sliding Pool, by E. V. Cunningham (Gollancz, £6.95). Beverly Hills puzzle, Japanese investigator. This is English tea-cup school translated into California white wine different fornia white-wine, different conventions, same simplicity, same pleasure.

H. R. F. Keating

FOYLES ART GALLERY **EMBROIDERY** BY CITY AND

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Ghandhi drops Maharashtra chief From Kuldip Nayar, Delhi, Jan 13

apartheid on

Mrs Indira Gandhi, India's Prime Minister, is looking for a successor to Mr A. R. Antulay, the Chief Minister of Maharashtra, who has been indicted by the state high court for misuse of

power and malpractices.

Mrs Gandhi has been shielding Mr Antulay for some months during which the press and the opposition were repeatedly alleging that he had constituted a trust in the name of the Prime Minister to collect money from private parties by selling them over-priced cement. Cement is distrifrom private parties by three opposition members. obvious that it was now three opposition members. Obvious that the Prime Minisselling them over-priced cement. Cement is distributed by the Government directly because of short ours verdict but she did not towards the whole question of convertien.

Mr Justice Lentin has ported her when she was ruled that the connexion defeated at the polls in 1977. between the allotment of cement quotas and donations.

Matters may not rest here

himself that no allocations quiry. were made by Mr Antulay.

agree because he had sup- of corruption.

cement quotas and donations to the trust was established. He said that the charge of arbitrariness on the part of the Chief Minister was justified.

The judge has rejected the versions of the state government and the Chief Minister may not rest here and the opposition will try to make capital out of the court judgment. There are corruption charges pending against the chief ministers of Bihar, Orissa, Madhya Pradesh and Haryana and Mrs Gandhi has not been allowing any indirection.

The ruling came in the under the ruling came in the wake of a petition filed by three opposition members.

The Communist Party of India (Marxist) has said in a statement that it was now obvious that the Prime Minis-

the dangerous path between the ludicrous and the sub-lime. To tell the plot is to murder a well-written book, but reviews without resumes are equally deathly, so:

Dani, a young circus wrestler, is to be sentenced to death for the rape and murder of a young girl. Dani is a sweet-natured and simple I can keep my 1982 resol- is a sweet-natured and simple ution of good-will to all men freak whose gigantic penis with enthusiasm when reviewing four male novelists in a society which holds that viewing four male novelists in a society which holds that who are as initiative as their publishers promise.

Weights and Measures, weights in 1877 is the third wave their scapegoats. Dani was the constraint of those who share his sense of hopeless exclusion from normality: a dwarf, a Turkish lady-wrestler, and Eva, who is burdened only with an

Miranda Seymour jump from point to point sets

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Indigenous virtue

With just under seven weeks to run in BBC2's season of Australian films, David Robinson makes his selection from the "cinema miracle"

If proof were needed that the Australian cinema miracle has persisted, in defiance of Cas-sandras at home and abroad, it is BBC 2's current season of Australian films. Like most miracles, this one was rather less miracle than happy coincidence of will and organization. In the early Seventies a couple of loud farces, The Adventures of Barry McKenzie and Alvin Purple, striking well below belt level, demonstrated that Australian films could find an audience abroad. The establishment of the National Film Commission and subsequently state commissions showed the concern of the Government to build up a native film industry, and provided native film industry, and provided funds that went slightly further than merely priming the pumps.

In Australia, suddenly, there was Peter Weir with his still under-

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-swapping night, as

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appreciated horror-comic The Cars That Ate Paris and Ken Hannam, who returned from British tele-vision to make the most majestic film of the Australian flowering, Sunday Too Far Away (February

21).
The new Australian cinema started with several advantages. It was not weighed down like the British cinema with extravagant habits that come with too long involvement with American production methods, or with toughly restrictive trade unions. Modesty and flexibility are strong assets of Australian cinema. So is the unashamed demonstration of a national idiom, the declaration that Australians are not Americans or British with a funny accent. Through Australian films the world has begun to discover an authentic and identifiable Austra-

lian character, sentiment, humow language, style and strength. Australian acting has a directness of its own, the attractions of which are demonstrated, at one level, by the growing popularity of Oz TV soap operas. This is truly the projection of a nation. The new cinema has had its

difficulties, foremost and most persistent, inevitably, money. Within the past year the Govern-ment devised an enlightened taxment devised an eningitened taxrelief scheme to stimulate investment in Australian pictures; but
were forced into a series of
contortions and sidesteps when it
became clear that the scheme
involved the risk of pushing
production in a terrible dead end
of feat buck a visible A avised. of fast-buck quickies. A revised scheme paid more attention to the individual merits of projects and the degree of Australian involve-

A continuing cultural dilemma divides those who believe that, to win an international market, Australia had to aim at some mythical concept of the international film from those who believe that the strength of Australian films is their sturdily indigenous content and quality. History and box office alike support the indigenous view. The films that have achieved commer-cial success internationally even when they have used some foreign talent, have been as Australian as 'roos. The "international" pictures have generally sunk without trace, proving that the mid-Pacific film is the same unsound vessel as the delusory mid-Atlantic production which has so often undone British

how sensitively and illuminatingly Australian film-makers have dealt with their own recent past. Philip Noyce's Newsfront (January 24) stands as one of the most original feature films of the decade in dextrous combination of actuality and fiction, its use of an eventful saga of cut-throat competition between two rival newsreel companies to explore political and social traumas of the post-war period. John Power, formerly a documentary director, makes something very different out of the rivalry of two itinerant film exhibitors touring rural Australia in silent film days in *The Picture*

Show Man (February 2) — an affectionate impressionistic com-

edy, nostalgic for a lost past.

Among the film's great merits is the central performance by John Meillon, a master at characters of seedy self-importance.

seedy self-importance.

The Twenties are also the setting for The Irishman (already screened), directed by Donald Crombie, whose Caddie, about the trials of a young woman in the depressed Thirties, is one of the major achievements of the new cinema. The Irishman feelingly shows the divisions of a farmer who cannot bring himself to who cannot bring himself to abandon the methods — dominated by horse power — he has followed all his life. Crombie's sensitivity in dealing with ordinary emotions and intimate human situations is also revealed in Kathy's Child (January 26), a contemporary story

Susannah Fowle in "The Getting of Wisdom": Bruce Beresford rising handsomely to a challenge

based on a real case, about the anguish of a Greek immigrant whose husband abducts their child and takes it back to Greece, leaving her to discover the rough and the smooth of an alien society.
It is no particular credit to BBC television that Sunday Too Far Away has waited seven years for this first screening. The title comes from the lament of the wife comes from the lament of the wife of the sheepshearer home for the weekend: "Friday too tired, Saturday too drunk, Sunday too far away." The rivalry, rough humour and hardships of the shearers' seasonal work might not sound too promising a theme; but Ken Hannam brings to it the thrill of epic as well as the less bawdry of epic as well as the less bawdry of Australian humour.

A later film by Hannam in the season, the psychological mystery melodrama Summerfield, (January 17), shows him vainly grappling with a script that stubbornly remains a contrivance. The energetic and prolific Bruce Beresford is also generally as good as his scripts. He can rise handsomely to the challenge of Breaker Morant or The Getting of Wisdom (February 9) — Henry Handel Richardson's, story of a bright girl rebelling against the social and disciplinary restrictions of an early-century education. Beresford's The Money Movers (February 7) is a fast heist film in the kind of sub-Hollywood manner that does not get the Australian cinema years for get the Australian cinema very far.
I have yet to see Tim Burstall's
The Odd Angry Shot (January 31),

about Australian sol-diers in Vietnam. For those who like manly sentimentality there is yet another showing of an estab-lished BBC favourite, Henri Safran's Storm Boy (January 19), which tells of the friendship of a little boy, a penguin and a young aboriginal; and there is Blue Finn (February 16), an attempt to recapture the same romantic quality with an adaptation of a novel by the same writer, Colin Teiler, and starring the same child, Greg Rowe, by this time slightly larger.



McGough (left), Patten: nervous tension

Poetry Diving into culture

flutters through a succession

Sixties pop star Brian Patten flutters through a succession of interview responses and poses. Roger McGough seems also nervous but reacts by producing a steady flow of rationalizing and genial but puzzled patter.

"Of course Brian was always The Poet in those days..." The Patten head dips in modest affirmation over his tightly crossed legs. Those days were the early Sixties. Patten, a 15-year-old reporter on the Bootle Times, met McGough, a teacher of (among others) John Conteh, and they discovered a mutual interest in poetry. Patten produced a poetry magazine called Underdog, written mainly by himself under a full show — entitled Behind the content of the content of the two weeks but the mainly by himself under a full show — entitled Behind the content of the content of the two weeks but the mainly by himself under a full show — entitled Behind the content of the produced a poetry magazine called *Underdog*, written mainly by himself under a variety of names, and McGough joined in.

being sanctified by the new pop music, a fashion that gradually accreted enough claims to seriousness to admit something called poetry. By the end of the Sixties, a Penguin anthology called The Mersey Sound had endorsed the aspiration. The endorsed the aspiration. The verse owed its sociology to the American Beats and its style, according to McGough and Patten now, to the French surrealists and sym-

Patten left Liverpool for London before the Penguin was published. Asked why, he goes into a strange, nervous paroxysm and says he will answer later. Patten thus dived into culture in a basement in Holland Park while McGough leapt into show business with The Scaffold and subsequently Grimms. Scaffold was closer Tessa Peake-Jones delightfully plays the errant Dora; James Warwick her apparently elevated husband; Ian Holm, who takes most easily to uneasy parts, is the failed schoolmaster, trying hard to repent of his homosexual sins but still very much in

long since been diluted to naughtiness of the zany, lots of kids coming who madcap variety. "I enjoyed being part of the group. I enjoyed extending the possibilities of that. It was a strange mix: one day we were and the long that the long on Top of the Pops and the level

they both represent oddities in the modern world in that they can make a living out of the Sixties as if it was writing verse. Both, in defer- yesterday. Dennis Hackett ence to their original inspiration that their work should

With the faintly nervous above all be accessible, also arrogance of a newly-famous give a steady flow of read-Sixties pop star Brian Patten ings. The show which opens at the Tricycle on Monday is

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Mrx all services and ones. The services are services and ones. The services are services are services and ones. The services are services are services are services. The services are services are services are services are services are services.

nainty by himself under a full show — entitled Behind the Liverpool at the time was a transitional phase between the properties of the properties of

format as any particular blueprint for the future or as any permanent development. Indeed once Behind the Lines is completed and performed they are more likely to slip back into straightforward readings, the audience for which has remained astonish-ingly consistent. "We get audiences of two or three hundred, sometimes less — poetry is never going to fill the Albert Hall — but that number keeps the atmosphere of a small hall for the readings."

They also take heart from the composition of the audience: "We still get the older to pop than verse and any vestiges of surrealism had long since been diluted to

level examinations, an ambiguous honour denied to next day it was Kaleidoscope", says McGough.
But just producing books
had also proved a viable
living for Patten, and indeed

level examinations, an ambiguous honour denied to their musician coevals. "We haven't made it to A levels yet. We're not dead enough yet", says Patten, evoking in

Bryan Appleyard

film-makers. The BBC selection illustrates

Interview: Alfred Brendel

Playing with ideas

The bizarre portrait-model of Alfred Brendel which stands on his piano, half-centaur; on the bizarre portrait-model of the deeply serious, fusing in an instant like a metaphysical conceit. half grand piano, surveys a studio of leering faces. There are masks from Africa, Indonesia and New Guinea, faces from Peanuts cartoon strips and an extraordinary early surrealist Viennese etching of Beethoven's head, with a couple locked in embrace in the tangle of his embrace in the tangle of his we notice much more the adventurousness of Haydn, because Beethoven was fool- ish enough to say something about the entire person being both male and female", because we are used to Mozart and Beethoven who in what Haydn's or Mozart's came affactuards."

Brendel: Liszt-obsessed Brendel: Liszt-obsessed or in the tangle of his we notice much more the Brendel: Liszt-obsessed adventurousness of Haydn, original keyboard instru- ments like the fortepiano?

"I'm much less interested in the tangle of his we notice much more the adventurousness of Haydn, original keyboard instru- ments like the fortepiano?

"I'm much less interested in the tangle of his we notice much more the adventurousness of Haydn, original keyboard instru- ments like the fortepiano?

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"I'm much less interested in the setting of them, or ments like the fortepiano?

"I'm much less interested in the setting of them, or ments like the fortepiano? about the entire person being both male and female", Mozart and Beeth laughs Brendel, and scurries came afterwards."

Havdn and his tiny old book.

Brendel's studio and his with the play of ideas, the absurd, the whimsical and the macabre bouncing in and

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Tomorrow and

Sat at 3.00 & 7.45

Brian Friel's

in the Lyttelton

Mon at 7.45

Haydn's face comes into focus: "Goethe says he had the two most important qualities of genius: naivety and irony. I think what he means by irony is a sort of detached oversight, whereas naivety is the opposite, the total involvement. But today we notice much more the

He spent his last sabbatical studying what he considers to be an unjustly neglected corner of the repertoire, and intends to continue playing and recording the sonatas over the next few years. In his Festival Hall recital on Sunday he will play the late D major Sonata. "The second movement is quite crazy, one of those anti-minuets, anti-scherzi, where all the accents can be fun. Particularly when I play the C major Sonata, too, I like to sit there like one of those little men in a Charles Addams cartoon, to show them something quite an important new record of

He will play the D major Sonata on a modern concert grand; but how does he rate performances of Haydn on

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or Beethoven's pianos could do than what their orchestral atas take up a large place in and chamber music sounds Brendel's life at the moment. like. Their keyboard music is most often a reduction of ideas for all possible media. Take the A minor Mozart

Last year, Brendel released extraordinary is going to the late plano works of Liszt, happen."

He will play the D major Sonata on a modern concert grand; but how does he rate was playing and recording the late works 25 years ago when nobody else was tack-ling them; in 1978 he received the Liszt Society's Grand Prix du Disque; but only now, he feels, are we begin-ning to listen to them properly, not as dazzling threatening, sexual and omin-technical masterpieces, not merely as forerunners of raincoat moves behind her as twentieth-century music, but

> compared these late works with the discovery of the primitive in European painters like Gauguin at the turn of the century. The "brevity and monumentality", the "monotony and refinement" that he sees and recreates so tellingly in the dark colours, the bare unison writing of Unstern, its growing obsessiveness, the almost dizzy

essay which accompanies the record. For Brendel, unlike many performing artists, writing is a constant and necessarily integral part of his art, shaping and articulat-ing verbally the ideas he is working out through his playing. "I'm interested in thinking as clearly as possible. In music, thinking and feeling are necessarily con-nected: the reptile and the mammal contribute emotion, but the sense of order and necessity is generated by ratio. Reason is a clarifying force, a filter for the emotions. And I'm intrigued to find out how clearly one can write about music without over-simplifying, by being specific, but not esoteric." Hilary Finch

Aspiring to saintliness obviously hopelessly, against her husband's superiority.

Dora Greenfield has erred, diminished herself perma-nently in her husband's eyes by her escapades but not to the extent where he can forbear to take her to bed. Their reunion takes place in a lay Anglican community where the light of righteousness shines but the shadows hide the conflicts between spiritual aspiration and base temptations. It is Iris Murdoch country, the setting for The Bell, dramatized in four parts on BBC2 with the first in view last night. It promises

He, an art historian exam-

Television

ining the ancient man-uscripts of the adjoining abbey, has already added the approbation of the comm-unity to his own highly developed self-esteem. Into this clutch of aspirant

saints, who have not yet reached an altitude where the clay has been left behind, moves Dora, willing but inescapably worldly, tip-tap-ping on high heels where flat shoes make no sound. They are described to her as "an Dora, earthy, pulchritudi-nous and compassionate, a simple definition that forgivable sinner, is first makes us aware that we are encountered taking leave of in the presence of characters her boyfriend before joining about to be unmade. And the the community and measur- unmaking is soon under way. ing herself once more, and It makes for a gripping start.

by Barry Davis and drama-tized by Reg Gadney, is well cast, well photographed and pacily directed. It was shot on video in the very short space of nine days, but that does not show and the further episodes should be

the presence of temptation; Michael Maloney is the young student with whom

Dora finds communication possible. The Bell, produced by Jonathan Powell, directed

Sonata, for instance, which I shall play after the Haydn Sonata. I have made up my mind now, as I wanted to do when I was 20; I'm playing it as an orchestral piece, not as something which has to be scaled down to a Mozart piano. That would not, in my scherzi, where all the accents opinion, do justice to what are wrong. I want to make the piece wants to say. It is the public listen to Haydn so big in scale, so grandiose and show them that music and orchestral in the first movement, that we must take advantage of the orchestral colours of a modern concert grand."

to feel their true heart. For Liszt's is another face, his music another mask, that still exercises its fascination over Brendel. He has, indeed,

claustrophobia of the Csar das macabre, are just facets of that "bitterness of heart" of the decline of tonality and human personality in late Liszt which intrigues Bren-It is a subject about which

Brendel has written fascinatingly and illuminatingly in an

Theatre

Man as predator

Follies Berserk

Cockpit

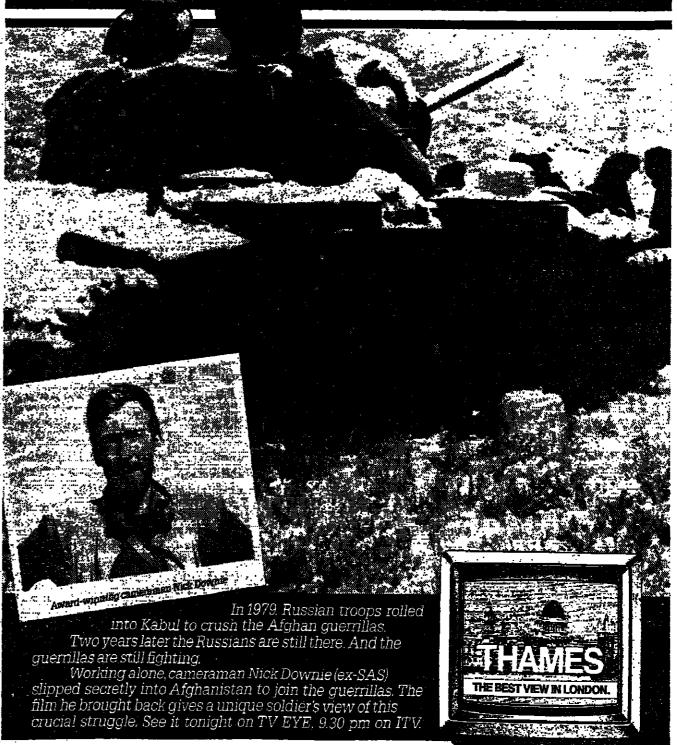
Whatever injuries men have dealt out, the Three Women Mime Company are ready to take revenge. One of the sharply pointed numbers in their Follies Berserk is a monumental indictment of the male as predator, yet the materials are simple, and even abstract. Peta Lily, a pretty white-faced clown, stands waiting somewhere on a street while male voices telling her to cheer up and asking the time become she backs away in fear and the suddenness of the follow-ing assault is a graphic illustration of the woman's state of mind, and of the actual threat posed by man as

In another imaginatively conceived item, called "Businessmen", the male sexual image is ruthlessly skewered. It opens with walking neckties and jackets, a picture which resolves into the competitive figures of the three women, Miss Lily, Claudia Prietzel and Tessa Schneidemann jostling each other for the favours of the secretary, an inflatable sex-doll with a shorthand pad in the place of sexual parts. When they decline into drunkenness at an office party they suggest the gro-tesqueries of Steven Berkoff in Decadence, although their actions are never as defined or as detailed.

· Absolute command of their movements is lacking, but in their sort of mime, which uses words, recordings and painterly images — often with a suggestion of Magritte the compensations are in the ideas. Not everything is formally feminist, and one of their most successful items is a spoof of Agatha Christie stories with three old women plotting each other's murder, while another piece explores the absurdities of carrying handbags. Nonetheless, they articulate a feminine view of the world, particularly in the "Follies" section where a striptease is translated into a mother's unswaddling of an

Ned Chaillet

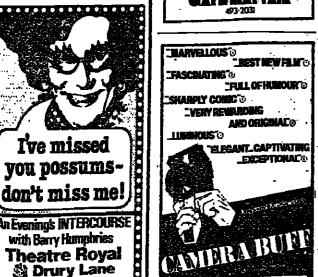




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An Evening's INTERCOURSE with Barry Humphries **Theatre Royal Drury Lane** CUT PRICE PREVIEWS FERRUARY 2nd & 3rd TCKETS HOW AVAILABLE OPENING NIGHT-FEB4!



What the Soviet block

(Net hard-currency debt to the West in billion current US dollars

1970 1980 1985-1

0.7 2.7 4-5 0.6 3.4 5-6 1.4 11.8 18-20

John Barry argues that the ramshackle economies of eastern Europe should be allowed to collapse

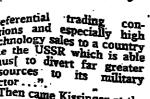
There is something awesome about western Europe's dictions and especially high dictions and especially high dictions and especially high technology sales to a country like the USSR which is able that it iming, 1980-81, was foreseen five years ago which was also when American leaders urged us to organization for Economic

States Secretary of State, of economic operation". raised the issue at a minis-

further loans — when its rather than political condebt service ratio reached 10 cerns. The upshot is that per cent. Yet now the what has become, for western banks went on example, the main Whitehall

lending.

The strategic implications of loans on this scale were realized. A meeting on East-West technological cooperation organized in Brussels in March 1976 by the Nato economics directorate constants. economics directorate con- I can learn.) cluded that: "... perhaps the cluded that: "... perhaps the West should exercise greater birth of Solidarity, the West's West should exercise greater birth of Solidarity, the West's paying 18 per cerit on some. the only contingency conrestraint in future in such priority became not the concessional areas as credits, orderly repayment of its hard currency trade balance intervention of the most



which was also when American leaders urged is to confront the problems raised by Soviet block debts to the West. Nothing significant was done.

It was in 1971 that the Polish government embarked on a "dash for growth" usingwestern technology bought with western loans. By the end of 1974 the strategy was hitting trouble. The debts were mounting but not the productivity.

By the end of 1975 it was also becoming clear that the spiralling Soviet block debt as; a whole, was worrying, with Poland merely the most precarious example. In June 1976 Dr Kissinger, the United States Secretary of State, raised the issue at a minis-

terial meeting of the Organization for Economic
Cooperation and Develop
Develop
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Talsed the issue at a minuswere not answered — nor
have they been, even in the
present crisis. The main But the hard questions Already, Poland's debt service ratio — the percentage of annual foreign exchange earnings needed to repay principal and interest. repay principal and interest Poland which the French due on outstanding debts — government convened in was somewhere between 20 Paris in October 1980. The other five countries of Soviet coordinate western response coordinate western response Europe not far behind. Italy to yet another Polish request in 1974 had been shut out of for cash. The group was the Euromarket — forbidden born, that is, out of financial con-



Henry Kissinger, who raised the issue of Soviet block debts in 1976; and Hans Friderichs, chairman of Dresduer Bank, Frankfurt, who has been coordinating talks between western banks and Poland. He visited Poland this week.

debts but the fostering of to meet those debts, Poles brutal sort — action which Solidarity and the use of any levers that the West could those imports were needed to find to that end. Yet the fuel the western machinery Nato's own analysts, howwestern governments allowed the banks to continue to dictate policy, with results wholly inimical to the interests the governments

were trying to secure.

If Solidarity were to stand a chance, the West had to relax its economic pressures on Poland, because the immediate outcome of Solidarity's victories would clearly be a worsening of Poland's economic plight. The five-day week won in the Gdansk agreement, for example, meant a 15 per cent fall in Polish coal output. Poland had to be given time. Western governments agreed to this. Despite the paralysis of Washington under a new administration, they decided quite swiftly to reschedule Poland's most immediate debts. The banks, by contrast, not only took months to come to a similar

term credit market, forcing Warsaw to seek short-term

loans. Poland is said to be

fuel the western machinery already installed. The phenomenon economists call "cascade effect" whereby a shortage of one part causes ripples through-out industry — took grim hold. Poland, with one third of its capital stock unused, ground towards breakdown.

Yet as this predictable (and predicted) cycle unfolded, western governments proved unable or unwilling to exert effective pressure on their banks. And a prime reason was the dominant influence of treasuries and central banks with their arguments that, even in this pass, the freedoms of the commercial banking sector must be observed.

Intervention became inevi-

The imminent failure of this substitute for a strategy was foreseen. By the autumn of 1980, Nato had settled agreement but shut Poland down to plot possible western from the medium and long-responses to military inter-term credit market, forcing vention in Poland; and by last spring a series of measures had tentative agreement. But

ever, consistently warned that a Soviet invasion was in the first instance less likely than intervention by the Polish military. Against this contingency, Nato governments concerted

no plans. Why not? Because they realized they could not agree. (It was a characteristic Nato response: most of Nato's military preparations are similarly geared to the most politically comfortable scenarios, rather than the most likely ones). Now the crisis is upon us. There is a good deal of talk

about European impotence. The truth is that western Europe is in a strong position — better placed to take action, in fact, than the United States.

It is not hard to discover the reason for American olic lobby in the US is probably second in strength only to the Jewish. But Washington has few levers against eastern Europe. American banks are not among the biggest creditors of Poland or the eastern bloc; so on that front the United

States could achieve nothing without European support.
United States leverage against the Soviet Union is confined to grain and high contined to grain and mgu
technology, particularly to
develop the resouces of its
eastern wilderness. Western
Europe, by contrast, is better
placed to take action directly
against eastern Europe, a
point which the communique issued by the Nato foreign ministers barely addressed— it appeared designed to disguise the strength of the

To finance the imports it must have if it is ever to get its industry working again, Poland needs massive new hard currency loans. At the start of 1981 one western estimate put Poland's needs in new finance at \$12-15,000m during the period over 1981-85. Higher estimates have come out of Warsaw since then. Western banks will not advance one cent of that without guarantees from their governments.

That crucially simplifies matters. This is not a case as the embargoes over Iran and Afghanistan were, or as a blockade of South Africa would be - in which western governments have to step in and halt normal commercial

trading. In this case little or no trading will take place supply cheap credit to the supply satellites. The trading satellites the trading satellites. unless western governments step in with fresh loans or guarantees. Before govern-ments decide whether to risk billions more of their taxpayers money to bail out Poland, it is reasonable to

Poland, it is reasonable to ask what foreign policy goals those loans would serve.

After a decade of dizzy borrowing, the six countries of Soviet eastern Europe now owe the West more than \$60,000m (gross debt at the end of 1981, according to end of 1981, according to Nato sources). Most have little chance of repaying their share without transforming their economies, and that has little chance of coming about without radical political change.

Some of the six may have indeed already have caught the "Polish disease". In the uproar over Poland a fortnight ago, an omen from alsowibere in eastern Europe

night ago, an omen from elsewhere in eastern Europe passed unnoticed. The Romanian authorities ceased for a nian authorities ceased for a time to respond to worried telex messages from western central bankers. There is little doubt, in fact, that Romania cannot meet its debts without a rescheduling along Polish lines. Nor will rescheduling help Romania much unless it effectively reforms its economy.

After that take your pick.

After that, take your pick.

East Germany in trouble in, perhaps, two years? Czechoslovakia about the same time? members of the Warsaw Pact. But it is by no means self-evident. There is good evidence that eastern Europe ceased to be an economic asset to the Soviet Union and became instead a burden around the mid-1960s. around Throughout the 1970s the West in effect shouldered part of the Soviet burden and thus helped the Soviet Union

Moscow of a sub. relieved financial drain the communis stantial Second. regimes in eastern Europe were given the hope that with the additional productivity of western machines hough, with western credit they could buy off popular discontent without the need for the could be soon. So, far for the could be soon. political reform. So, far from spurring change in eastern Europe, western credits seen mostly to have been used as a

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. Of all the regimes, that in Poland was most vigorous in pursuing this policy of box rowing its way out of trouble. One western experion the Polish crisis, Property of the Polish fessor Mario Hut of Br.
mingham University, of served recently that in all their dealings with Solidarity the Polish authorities, faced with a choice between polisi cal concessions which would have been cheap in resource terms or costly econom concessions, chose to make the economic concessions But that, in essence, is the strategy that Warsaw has followed since 1970. And so, to a degree, have all the regimes of the area.

The strategy has failed Poland, the dominant economy of eastern Europe, has fallen apart. Other-regimes are not far behind. Any bets on Hungary?

It may be in the West's interests to bail out first Poland and then its fellow to arrest that process. Or to pour our further billions to arrest that process. Or whether, to the contrary, it is not time to refuse further loans and make the rescheduling of existing debts as difficult as possible, to tell the Soviet Union that if it wishes to preserve its ram. shackle empire it, and not the western taxpayer, must now pay the full cost — or allow real change.

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Germany's bravest peacemaker

On Martin Niemöller's 90th traditional Prussian parson-birthday, Paul Oestreicher age. For a career he chose looks back at the career of the Imperial Navy and by the

the slogan "make peace meant unemployment, a years as Hitler's personal pal style, though he rejected without weapons"— it period of farm labour and prisoner. He survived them the title of bishop. He sweeping through the young ran ministry.
generation from Hamburg to By the time Hitler came to Munich, from Aachen to power Niemoller was rector Berlin. And it has not of the fashionable Berlin stopped on this side of "the suburb of Dahlem. Many of Wall". The theme of swords into ploughshares has parishioners. He was not into ploughshares has parishioners. He was not gripped the public imaginunsympathetic to a disciation in both German states. plined movement to "clean m" the In the West a higher pro- promised to "clean up" the portion of 18 year-olds than nation. But as soon as the pornon of 18-year-olds than nauon. But as 500n as the anywhere else are opting for a social service alternative to military training. Young East Germans by the thousand are — through the Church — petitioning their government to give them the same kind of threat and summoned him the same has been as the party began to impose its page it decloyed on the church he began to organize a clerical resistance movement.

Hitler recognized the threat and summoned him the same has been as the page its page its page.

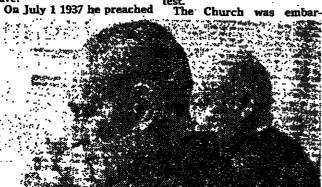
What makes this doubly occasion confronted him unexpected is that the leader-ship comes almost entirely from the German Protestant Church. There is really no doubled his efforts to defeat German tradition of pacifist the Nazi-infected German idealism, secular or religious. Christian Movement. "Yet", German Lutheranism has always discouraged dissent from the legitimate demands of the state. Consequently even Hitler's rule was accepted with varying degrees of enthusiasm by most Chris-tians. But a brave minority banded together to form the Confessing Church, the Christian resistance. Their undisputed leader was Pastor Martin Niemöller. In the his name was a household word around the

Today Martin Niemöller, celebrating his ninetieth birthday, can take some pridein the fact that without him and his friends a mass peace movement largely based on the Sermon on the Mount would hardly be thinkable. Niemöller was born into a

traditional Prussian parson-age. For a career he chose the Imperial Navy and by the lished in England as The was reelected as president by this near-legendary German time the First World War church leader. this near-legendary German time the First World War Gestapo Defied). The police his provincial synod by the church leader.

To almost universal surprise boat. The Kaiser's defeat church: There followed eight ruled the province in episcothen training for the Luthe-

personally. Göring on that he was later to confess, failed to present the true challenge of Christ to Hitler. I could have and should



Martin Niemöller: a restless ministry

in solitary confinement with brought warmth, humour and the Bible — and Shakespeare efficiency to the job but little in English,

Released by the American still very much the U-boat army in 1945, Niemöller captain.

refused to be put on a But the peace movement pedestal. He insisted on has dominated the latter sharing the guilt of the years of his restless ministry. German people: "First they Like many a prophet he was came for the Jews", he said never easy to live and work "I was silent. I was not a with; yet even his political less Then they came for the companies admit to living Jew. Then they came for the opponents admit to liking Communists. I was silent. I him and to accepting the was not a Communist. Then authenticity of his preaching they came for the trade and the integrity of his faith. unionists. I was silent. I was Only the death of his wife in not a trade unionist. Then a car crash some 20 years ago they came for me. There was took away, for a time, his no one left to speak for me." warm smile. In 1954, with Dresden and Hiroshima still fresh memories, he was converted to Christizn pacifism. He tenaciously opposed the rearmament of two opposing German states. He still believes that Stalin's offer shortly before his death to give up East Corman, for the eighties, the Church's political role today, will mark his ninetieth birthday. There will be no nostaling. Characteristically, he has never taken time to write an eutobiography and does not regret it. With his much In 1954, with Dresden and

Germany for a neutral, younger disarmed reunited Germany second w second wife he will enjoy children and grandchildren, should have been put to the friends from around the test. The Church was embarworld and good cigars and wine. His main regret will be that the Church has learnt so little from its disastrous compromises with those in power. His mind will be in places like Poland and El Salvador, his heart with the young peace marchers and he will still be thanking God that

> U-boat service in the Second World War. The author is Assistant General Secretary of the British Council of Churches.

Hitler turned down his crazy

patriotic offer to exchange his cell for another stint of

A symposium on prophetic

German-American

One of the silliest but least controverted of current political assertions is that Brit-ish politics are now riven by two kinds of extremism: that of the Labour left, which has driven good Social Demo-crats out of the party, and that of Mrs Thatcher, who has brought the Conservatives to desert the so-called centre ground of politics which all successful Tory governments had previously occupied.

in other words, Mrs Thatcher and Labour's dominat-ing left are accused almost even-handedly of ideology, as though, beneath the starkly different intentions of the two parties, the essential attitude and quality of mind were the same in each case. The term "ideological" is assumed to be self-defining and generally used as a term of abuse, particularly nowa-days by Social Democrats offering a rescue from this unholy predicament.

unnoty predicament.

The objection, however, is not to the word in its more on maintaining a substantial technical and precise meaning: the science of ideas. We all recognize that civilized recognize that civilized conservatism, of whatever moral understanding and their social concepts by the illumination of ideologies. What we rightly see as dangerous is the attachment of all political faith and action to a single ideology — forgetful of the natural limits of human understanding — in the belief that it will somehow open the gate to Utopia.

It is not altogether unfair to apply the word ideology to socialism since it is a creed embracing almost every aspect of life, which is to be imposed, in theory, by the collective will and in the collective interest. The collective interest. The socialist tends to believe that such virtue as exists in mankind, and such vision of

Ronald Butt

Don't tag the Tories with the wrong label

In practice, of course, most members of the Labour Party have hitherto not been ideologists in this total sense. Though they see a special virtue in collective responsibility and action, they have recognized that liberty depends on reserving every individual's right to a large measure of personal responsibility and freedom of action, acknowledging that both efficiency and liberty depend

Conservatism, of whatever variety, is, however, in no sense an ideology in the way that socialism is. Conservatives are influenced by ideas like everyone else; the conviction that mankind is better governed by evolving tra-dition and by political stability than by root-and-branch change is an idea, albeit grounded in empiricism. But Conservatives seldom believe that the existing system is above correction or favour absolute remedies to be imposed in the face of all

other considerations.

How, then, does the application of "ideologist" to Mrs Thatcher stand up to this That was also test, and particularly to and social idea. comparison with the condition of the Labour Party? What has happened to Labour is first that the dominant left is preparing to implement a politicians were in theirs, much more thoroughgoing state-controlled society than or being more ideological in her way than Keynesian politicians were in theirs.

There is nothing wrong with applying an ideological in her way than Keynesian politicians were in theirs.

we have ever experienced education — promising irreversible socialism.

ment would ever impose total by the power of "party-socialism so long as it democracy" and in the name remained genuinely respon- of its ideological vision it is remained genuinely responsive to the electorate, the left is bent on rearranging the Labour Party to make its aims possible. It seeks to make a Labour government, a Labour Prime Minister and Labour MPs subservient to fits ideological vision it is entitled to impose by machine politics a wholly new system of party-dominated government on the nation.

Who then can rationally Labour MPs subservient to small caucuses of ideologiticians with no responsibility to the wider electorate.

Mrs Thatcher is also an idealist since she is totally committed to the idea that a healthy economy and a contented and prosperous society require what used to be called a balanced budget, the reduction of state borrowing and the control of the money supply. Keynes, in the conditions of his time, thought somewhat the opposite: that state borrowing could create industrial activity and prosperity,

reducing unemployment.
That was also an economic There is, however, no reason to accuse Mrs Thatcher of being more ideological in

politics - but politicians wishing to preserve stability must carry the people with them and must recognize the limitations of their design Mrs Thatcher has never shown the slightest sign of pushing her ideology so far as to ignore this provise.

Nor has she any equivalent to the ideology of the left which seeks "irreversible socialism." We have yet to hear her speak of "irrever-sible capitalism".

Above all, she lacks the ultimate "ideological" drive which moves the Labour left. from industry to such mat- it is not simply the left's ters of individual concern as policies for industry that have driven the democrats out of the Labour Party, but Secondly, lacking confi- the left's anti-parliamen-dence that a Labour govern- tarianism, and its belief than

Who, then, can rationally apply the word "ideological" to Mrs Thatcher and to-the Labour Party, pretending that it means the same sort of thing?

Labour may be rescued from its dangerous ideology by the treaty of Bishop's Stortford. In that event, if predominant influence is again restored to the likes of Mr Denis Healey and Mr Peter Shore, it is a question of how necessary the Social Democratic Party will be. II, however, as is more likely, Mr Healey and Mr Shore are dragged behind the chariot of the left, then the pragmatists of British politics, the people who recognize the proper limitations as well as the benefits of ideologies, will be the Alliance and Mrs.
Thatcher. If we are to have a
healthy and free political
society, the centre ground There is nothing wrong must lie between the with applying an idea in positions they now occupy.

The outsider in line for

David Lane's job

My money is firmly on Peter Newsam, the ILEA's education officer, to succeed David Lane as chairman of the Commission for Racial Equality in April. The appointment will not be announced for a few days but I nounced for a few days but I gather on good authority that Newsam, 53, who has been with the ILEA since 1972, came top of the list of the three or four names considered for the job. Among the qualifications which make him suitable are that he sits on the Swann Committee, which looks into the problems of which looks into the problems o the ethnic minorities in edu-cation, and he has played a major part in the development of the ILEA's Multi-Ethnic Association. His appointment would of course come as a surprise to those who thought the job would go to someone from within the commission — a view which has gained ground since the highly critical select committee report. which recommended that the which recommended that the commission's powers be reduced. I gather that if an outsider like Mr Newsam were to be chosen, there could be a few resignations within the commission.

Side tracks

Though it is a very inhospitable area now, Tamanrasset — the area in Algeria where Mark Thatcher was last seen — has not always been rough territory. In Saharan terms it is close to the

desert (its name means Plateau of Rivers). It is full of deep gorges and ravaged cliffs and it was here in the early part of the century that a French explorer found the first in a series of extraordinary cave paintings believed to date

The drawings showed elephants hippos, antelopes and giraffes, quite apart from a number of different kinds of people — hunters as well as farmers. The people, according to the drawings, wore basket-like structures on their heads, hairs shaved into a pattern and sometimes wore horns. They buried their dead, it is thought, in breast-shaped stone mounds which are unopened to this day, The presence of the animal drawings suggests that the area

was far more fertile and accessible at one time than it is now, a supposition supported by the account in Herodotus (roughly 484 BC-424 BC) that horses could still cross the Sahara in his time and by the fact that pollen from ilex, olive, elm and lime have been found in Tassili in association with cattle bones dating back to 3,000 BC. Paintings of horse-drawn chariots have also been found in the area and some believe there was once a chariot route linking what is now Niger

More social gains

celebrated cave paintings of Tassili. Tassili n'Ajjer is an enormous, curiously eroded mass of sandstone in the middle of the

Noel Parry, head of the sociology department at North London Polytechnic, and a member of the British Sociological Association's

THE TIMES DIARY



Smith anecdote the other day, I now hear from John Campbell that he has just delivered his biography of Smith to pub-

lishers Jonathan Cape. It has been five years in the making and campbell believes it is the first properly researched life of the great man. It contains a contro-versial chapter defending his role in the Casement trial plus a number of unpublished Smith stories. Here are two, which both involve Jimmy Thomas, leader of the railwaymen in the 1920s.

executive, provides today's three practical uses of the social sciences. Dr Parry is worried about media bias against the social sciences, so this extract from his letter will help redress the balance

"(1) The practice of bringing "(1) The practice or oringing parents (especially mothers) into hospital with their sick children, and to foster children's play in the wards, as an aid to speedier recovery. This was implemented against considerable organizations

"(2) The relationship between social factors, such as social class and sexual divisions, in relation to the distribution in the population of disease, educational and occupational opportunities, social mobility and other aspects of life chances, including unemploy-

"(3) The concept of the self-

Thomas was a proud man, especially fond of his accent and his dropped aitches. One day he complained to F.E. that he had a terrible hangover. "I'm afraid I've an 'ell of an 'eadache." F.E. replied smoothly: "Try a couple of aspirates."

The other start tells have, when

The other story tells how, when Thomas was elected to the House of Commons in 1910, he was at first bewildered by the corridors of power. He asked F.E. the way to the gents and was told: "Take the first left and then go along the corridor. You'll find a door marked Gentlemen' but don't let

ance of teachers' definitions and those of others on educational performance."
I must confess I was under the impression that the idea of the "self-fulfilling prophecy" had been disproved by later research, but I hope that does not mean I am biased. Three final uses tomorrow when I shall also award the winning bottle, with the aid of Michael Posner, chairman of the Social Science Research Corneil impression that the idea of the

of it looks to me as if they are ordering these things better in France. The Mauroy government has increased the budget for social science research, as for all scientific research by 30, yes, 30, her cent this year Not had

per cent this year. Not bad. But what is more remarkable is the whole-hearted government



research is the best way to help France towards a healthier economy and a healthier society. A national conference on research policy was opened yesterday by President François Mitterrand himself. It is the culmination of thousands of hours of meetings, hundreds of kilos of paper; produced during the last four months by researchers throughout the country. our the country.

True fellowship There is one accolade which scientists, unlike the rest of us, cherish more than a mention in

the New Year or Birthday honours lists. Better than a life peerage, much better than a knighthood is election to the Royal Society. For the scientist, FRS after one's name means far more than any number of letters in front of it. So it will be of more than passing interest to our scientific readers to find the Royal Society receiving criticism for perpetuating a certain type of

Dr Herbert Eisener, a former director of the Explosion and Flame Laboratory of the Health and Safety Executive, writing in New Scientist, reveals that Cam-Oxford, London or any other universities in nurturing potential fellows. He says that the tial Fellows. He says that the number of Cambridge graduates elected to Fellowships since 1971 is between three and five times the number to be expected based on the size of the university's science student population. The number of Oxford graduates elected since 1971 is between 1.7 and 2.5 times the number to be expected while the University of London actually falls significantly short of its quota (and other universities are "hardly in the running"). the running").

specifically, after eliminating Fellows whose first university through accident of birth was outside the UK and those whose antecedents are less well documented, Dr Eisener says that of the 286 remaining Fellows elected since 1971, 93 (33 per cent) came from Cambridge, 31 (11 per cent) from Oxford, 59 (21 per cent) from London, and 103 (35 per cent) from other universities.

Dr Eisener's research clearly shows that Oxbridge continues to

cream off the best undergrad uates and the best graduates. But, he asks, why is there such a disparity between Oxford and Cambridge in Royal Society Fellows. Their teaching starts were surely equally eminent? He therefore inclines to the view that the Royal Society, like other lesser bodies, propagates and perpetuates its own kind.

Hair-raising

The latest fashion fad favoured by YMT's (young male trendies) is, I am told, to wear a plait in the hair. No longer confined to pirates and eccentric members of the aristocracy, plait-wearing is now popular with artists, designers and musicians, although advertising copywriters and even lawyers are known to indulge.

Certainly, plaits are more hygienic than the spiked-glue atrocities of punk hairstyles, yet plaits are also intended to shock. The typical wearer will appeal

perfectly respectable from the front three-piece suit, tie, polished shoes. Only when he turns his head will the full force of the fad strike you.

Dress designer Rory West is one VACT with the fad to the fad the f one YMT who has taken up the habit. "I used to have long, green hair," he tells me, "then one night I decided to shave it all off.

left this little snake-like green bit hanging down." He is often stopped in he street by people who tell him he has something on his shoulder.

Barbers suffer a strange com-pulsion to cut plaits off on sight, so most wearers look after their own hair.

Peter Watson

Helping industry

Mrs Thatcher deserves the union's gratitude), coal sales depend critically on being able to remain competitive with other sources of power and (in the increasingly important export market) with foreign coal producers. Many customers would simply be driven out of business by a large price increase.

The offer already leans

the pay bill three-quarters of the predicted income from the price rise that took effect in pensive programme to develop new capacity as old faces are worked out will be threatened unless this financial year's 4 per cent improvement in productivity is maintained next year. February's triumph over pit closures did not alter geological realities: the NCB closed ten pits last year, the labour force shrank, and recruitment dropped sharply. Coal mining can only keep up production and employment by a constant process of re-

point where he could see no reason to deny any needs that Taiwan pressed upon him, even though an unyieldingly anti-Russian China had be-come a card in the global game. Taiwan and China

things. This wartime and post-war American sentiment — in an older generation — has never weighed up the more deeply rooted emotions of Chinese nationalism. These are not a product of the last forty years, they go back at least to the cession of Taiwan following Japan's defeat of China in 1895, a far more powerful stimulant to Chinese nationalism than the opium wars earlier in the century. Since Mr. Deng's regime in China today is basically one that has turned away from revolutionary aims to return to the national aims of unity and strength that blossomed after 1895, it follows that Taiwan is the missing piece that matters most to China's unity, a piece that was snatched from them by chance and misfortune in

But Taiwan, of course, is a very different problem for China now than it was in 1949; it has become a property not easily subject to takeover. How can such a phenomenon of economic growth be the "free world" in the global absorbed by a mainland division of the world that whose record in the last thirty years has been mostly turbulent and unpredicable? Mr democratic credentials of its Deng is seized of such facts government were found want- and knows that it will take ing, it was an island that loved time before the security and America and could be loved in progress he is trying to bring return. From such an about in China can make a marriage even seem tolerable

LETTERS TO THE EDITOR

to plan ahead BANKERS AND THE BANK

One can sympathise with the Cabinet as it grapples with the Monopolies Commission's report on the future of the Royal Bank of Scotland. At any time ministers prefer the commission to take the odium of deciding delicate take-overs off the government's back. All the more devoutly have they wished the commission to come to a firm conclusion on this occasion, when the Governor of the Bank of England has placed his own prestige in favour of one bid. and against another, when the take-over has aroused such strong feelings within the Scottish community, and when half the nation's departments of state from the Foreign Office to the Treasury have become embroiled in the dispute.

By all accounts, the commission has stepped back parties would be equally from the final responsibility content because all would be and put the ball back into the disappointed equally. Yet this Government's court. And that, although not a particularly brave decision on the part of the commission is where it should be. The Royal Bank of Scotland take-over merge if they are to thrive in has raised issues of the future a competitive international of banking control, the status scene. It would not meet the of the Bank of England, relations with China, and the future of Edinburgh as a have already fallen 50p on financial centre, which are news of the rumoured conference of the state of the Royal Bank's shareholders, whose shares have already fallen 50p on financial centre, which are far beyond the normal ques-tions of monopoly and free Commission. It would not competition raised by a con-meet the questions of compe-

for ministers, let alone the Monopolies Commission, to gainsay his advice without damaging the prestige of the whole Bank of England. By proceeding with the bid against the Governor's advice, the Hongkong Bank has mevitably challenged the whole system of discreet control and informal guidance on which the banking system is regulated.

P.O. Box 7, 200 Gray's Inn Road, London WC1X 8EZ. Telephone: 01-837 1234

صرد أس الاصل

The compromise response, and the one which the Monopolies Commission seems to have been tempted into, is to avoid offence by using the Scottish factor as grounds to refuse both suitors. Thus all disappointed equally. Yet this would solve nothing. It would not ensure the future of an independent Royal Bank of Scotland, whose directors have stated that they must

tested bid. By adamantly titiveness posed by the pro-opposing the bid from the tected British clearing bank Hongkong and Shanghai system. Above all it would not Banking Corporation the meet the problems posed by Governor of the Bank of the challenge to Britain's England has made it difficults. Governor of the Bank of the challenge to Britain's England has made it difficult informal system of banking controls.

> The Governor of the Bank of England has attempted to enforce these informal con-trols through discreet guid-ance and he has had his bluff called. Informal controls only work when the participants are prepared to accept them voluntarily and when the regulator has the judgment not to push advice beyond the point where his authority will be challenged.

This is the nettle which the Cabinet must now grasp.
Unless it feels that the Royal Bank's employees and shareholders can do better independently, or unless it believes that there are strong financial or moral grounds for refusing the Hongkong Bank's entry - and neither seem sensible beliefs on present evidence then it should accept that the old order is dead and that the market should take its course. Banking could do with the competition of a new entrant and that entrant is best chosen on the basis of the suitor who values the Royal Bank highest. The pieces of banking regulation can then be picked up, and legislation introduced as required.

MR GORMLEY VOICES HIS DOUBTS

As the miners begin to cast which is probably true, their votes in the pithead though almost equally unwelballor today, many of them come to Mrs Thatcher and Mr may feel that they are making a bet which they can win, but cannot lose. Backing the call for a strike "if necessary" does not commit the union to action, and there may be a few extra pounds to be squeezed out of the National Coal Board by threat alone. But industrial disputes take on a momentum of their control of what is product that the with line squeezed out of the National control of what is product that the with line squeezed out of the National Coal Board out of their with line squeezed out of the National Coal Board out of their with line squeezed out of the National Coal Board by threat alone. on a momentum of their own, and a vote now for a strike would put matters on a where modest compromise or retreat would become far more difficult, and a strike might become

one. One experienced eye, at least, sees that the bet is not without risk of loss. Mr Ioe Gormley, still president of the union, has written in yesterday's Daily Express to give forceful warning, in funereal black borders; of the dangers to the union, the industry, the labour movement and the country that might follow a coal strike. He believes that the board's financial position rules out a concession of "more than a few quid", and adds that "there is not a union in the country which more than a bargaining has done better since Mrs position. Much more rigid Thatcher moved to Downing imperatives determine the size

Scargill.

The miners' claim is for 23 per cent, and the coal board's offer stands at 9.5 per cent, or 10.5 per cent for men with assessment of what is needed to restore miners to the position they were given by the 1972 Wilberforce award. inevitable even without most of those involved wanting most fruitful hasteners of inflation in the sixties and seventies. In this instance, the claim cannot be sustained either in terms of the industrial pecking order or of purchasing power: miners have risen in the industrial league, even if no price is put on their relatively high security of employment these days. The cost of living since 1972 has risen 274 per cent, while miners' earnings would have risen 385 per cent even if they accepted the offer on the table.

The union's claim is little Street" — an observation of the board's offer. In spite future of their own industry.

of the Government's energetic efforts to encourage in-dustrial markets for coal (another service for which

quite heavily on speculative factors: it would commit to investment. Even if the miners succeeded in exacting an offer, a better offer than the present one, they could only do so at the expense of the

MR REAGAN'S CHINA TRIANGLE

The decision of the Ameri- Although the word "official" can government this week not has had to be swallowed, to supply aircraft of an advanced type to Taiwan might have satisfied the Chinese if it had been made six months ago. Mr Holdridge's talks on Sino-American relations in Peking have shown that it is no longer a con-cession large enough to allay China's distrust of President Reagan. Further talks on arms sales to Taiwan and other aspects of the deteriorating relations between China and America are promised. Taiwan will remain the

In Office President Reagan has not modified his attachment to Taiwan. At first he ignored the advice of the Pentagon and the CIA that the advanced aircraft were not necessary for Taiwan's defence. Representations by the Chinese Prime Minister, Mr Zhao Ziyang, and the Foreign Minister, Mr Huang Hua, do not appear to have country, saw themselves made much impression. In foiled in the last act of a civil press attacks the last few weeks the Chinese have made China's unity for the first clear that their concern over Taiwan is quite strong enough for it seriously to damage relations with the United States, denying that American friendship in face of the Russian enemy was so valuable as to allow them to overlook American action over Taiwan.

China's distrust first arose with Mr Reagan's promise that "official" relations with Taiwan would be resumed under his presidency, despite the withdrawal of American recognition of Taiwan's government and the formal relations with Peking determined by President Carter. Reagan's feelings grew to the for Taiwan.

President Reagan has not been diverted from treating relations with Taiwan and those with the Chinese mainland as two separate questions for each of which a unilateral American policy could be decided upon.

It is easy to trace and to explain the entrenched attitudes on both sides. President Reagan's emotions probably go back to the pro-China sentiment that reached a peak during the war. Hopes were dashed by the communist victory in 1949. It coincided with the height of the cold war in Europe: an appalled American chagrin at this "loss" of an American ally was the result. When the chance of the Korean war enabled President Truman to lay down the barrier of the seventh fleet to save Taiwan the Chinese, passionately concerned to unify their war that promised to attain time in this century.

American eyes what it proclaimed itself to be, the true government of China, temporarily displaced by communist and therefore un-Chinese puppets of the Soviet Union; or it was manifestly part of captured the American mind in the fifties; or, even if the alluvium of emotion President

evidently occupied different corners in his scheme of

Taiwan became in some 1949.

From Mr Algy Cluff

From the Director General of the British Institute of Management Sir, Your assessment of the 1982 economic prospects (leading article, January 2) presented a view with which management and industry would broadly concur. You state, however, that Govern-ment can do little to ensure that manufacturing companies which are improving productivity can continue to do so in "a more normal economic environment". I do not consider that Govern-ment should be led to believe that

it is incapable of offering assistance to industry whose efforts during a time of unprecedented economic recession have been notable.

You rightly point out that investment cuts have fallen punitively on capital expenditure programmes. Surely then there is

a case for a modest relaxation of the PSBR target and for lifting the present restrictions which prevent available private finance from being invested in public sector projects. The removal of these restraints would amount to a slight reflation, which would perform the invaluable service of absorbing the extensive spare capacity in private manufacturing industry but should not be seen as contributing to the chronic inflation which it is essential to

It is of equal importance for Government and in particular the Department of Industry to realise that industrial prosperity must ultimately depend upon the creation of a stable environment in which business can plan for the future.

To this end it is imperative that

Government takes a lead in identifying and promoting a clear industrial policy which will ease our transition to a modernised industrial structure.

If Government implemented

these measures it could do so with the assurance that any glimmer of light at the end of the tunnel would not be discounted as a mere hallucination. Yours faithfully, ROY CLOSE,

Director General. British Institute of Management, Management House, Parker Street, WC2. January 5.

Marconi in suspense From Mr Bernard Conlan, MP for

out, the inordinate length of time being taken by the Ministry of Defence to make a choice between the competing bids of the Dutch, Hollanes Struggles not only outside of Parliament, but sometimes even outside the law.

In response to threats of longer hours. the Dutch, Hollanse Signaal
Apparaten, and Britain's Marconi,
to supply the Tracker Radar for
the new Lightweight Seawolf
missile system for the Royal Navy, is creating severe difficulties for Marconi in Gateshead, Leicester and Chelmsford and is destroying the morale of the 6,000 workforce. As the Prime Minister fre-

quently reminds us, it is the Government's settled policy to purchase defence equipment abroad only when an alternative British product fails by a sub-stantial margin on grounds such as cost, technical and operational

characteristics or timescale.
It is understood that the Royal Navy have expressed a preference, albeit marginal, for Marconi on grounds of technical performance, cost, experience of inte-gration in ships, continuing support to the Fleet, etc. This being so, why is the decision being constantly deferred?

Current uncertainty is damaging the export potential of the Marconi equipment for, quite understandably, other navies are waiting for evidence of acceptance by the Royal Navy. Overseas customers will not wait too long.

There are, of course, wider implications. In these areas of implications. In these areas of extremely advanced technology, national governments — including the Dutch — protect their industry by providing maximum support. If Britain is to preserve this technology, and secure its industrial base, our Government must clearly demonstrate its willingness so to do. The decision is long overdue and it is required is long overdue and it is required very soon.

Yours sincerely. BERNARD CONLAN, January 6.

Shakespeare in China

From Mr Paul Gotch Sir, Mr Chen Chun Yeh, in his interesting account ("A hit, a palpable hit in China", January 2) of Shakespeare in China mentions Toby Robertson's help with the production, in Chinese, of Measure for Measure. He did not mention, however, that this collaboration was made possible by the endeavours of the British Council, perhaps because he believes that this would be immediately understood by your

May I, therefore, explain that it was as a result of the successful council visit to China of the Old Vic in 1979 that Toby Robertson, with the designer, Alan Barrett, and lighting specialist, Keith Edmundson, returned in 1981 to direct the Peking People's Art Theatre production of Measure for Measure. This was part of the consolidation of the council's work in China.

The British Council's annual report for 1980-81 also mentions the tour of China by the Music Group of London, who performed with such notable success in Peking and Shanghai, teaching master-classes in the country's premier conservatoires, that invitations have been issued for a return visit by members of this group, also. Yours faithfully, PAUL GOTCH, 15a Copse Hill,

Wimbledon, SW20.

Tax decision on North Sea oil

Sir, The Chancellor and the Secretary of State for Energy are shortly to consider their response to the representations on taxation recently submitted by those oil companies engaged in North Sea exploration and development. The form of that response is a matter of the greatest concern to our country and it is important that the issues are appreciated by the public; for, if there is to be no regard paid to the oil companies' case, there will surely be violent recrimination in the future and it is accordingly as well to establish the position

The problem, simply stated, is that political perception of the North Sea, to the extent that it exists at all, is confined to regarding it as a device to raise revenue rather than to create wealth. This perception has now led to the North Sea acquiring the dubious reputation of being the most heavily taxed oil province in the world barring Norway, which is in no sense comparable, having a population less than a tenth of our own.

The British North Sea fiscal system (angul from being sixten)

system (apart from being virtually incomprehensible so badly has it been constructed) has ceased to acknowledge the profound uncer-tainties and the unparalleled commercial risks which attend the oil companies. The tax rate is currently suspended between the unreasonable and the irrespons-

I believe that the Department of Energy is aware of this and of the disturbed state of the oil companies' morale, but I fear that the Treasury will maintain its relentless pursuit of additional revenue. It is, Sir, deeply depressing to be part of the fledgling British oil industry and to realize how much real wealth.

financial and intellectual, it could IN Dractice generate for Britain if only Government would provide for From the Chairman of the Social the oil companies to profit to a Science Research Council degree consistent with the risks they take. The odds against a commercial

oil discovery being made in the North Sea must now have lengthened to approximately 14 to I and the size of such fields is diminishing all the time. The present tax rates (cumulatively amounting to around 90-per cent on profits, including a sup-plementary petroleum duty which is, in practice, a tax on revenue regardless of profit) would be unreasonable if the odds were practically even.

I urge the Government to reflect how much good for this country will result from a positive response to the proposals of the United Kingdom Offshore Operators' Association (UKOOA) and of the Association of Brissh Industrian Company Independent Exploration Compa-nies (BRINDEX) and to consider carefully the implications of sustaining the severe pressure under which the industry oper-

Being a truly international business the prospect increases daily that the lights of Aberdeen will be, if not actually ex-tinguished, sadly dimmed in the coming years. The story of North Sea exploration is undeniably one of conspicuous success. However Ambrose Bierce once defined success as the one unpardonable sin against one's fellows. I am afraid the North Sea oil companies are being unjustly penalized

Yours sincerely, ALGY CLUFF, Clova, Lumsden. Aberdeenshire. January 3.

Outside Parliament

From Mr Peter Tatchell

Sir, Frank Field (January 9) accepts the legitimacy of extra-parliamentary action prior to the granting of the universal franchise. However, he apparently doubts that it is possible to cite equally impressive and justifiable cases of extra-parliamentarianism since the adult suffrage was won. This is a surprising view from a

parliamentary representative of the Labour movement. The recent history and finest hours of this movement have included

General Strike brought organised labour into direct confrontation against the elected government. To defend impoverished tenants from onerous rates and rents,

unjust legislation was defied by Labour councillors at Poplar in 1921 and Clay Cross in 1971. Only a decade ago, free and independent trade unionism was preserved at the cost of workers refusing to recognise the Indus-

trial Relations Act. The AUEW Rockingham Street, SE1.

dockers were imprisoned for contempt of court. Their release, and the defeat of the Act, was won through a campaign of noncompliance with the law and the threat of large-scale strikes.

The miners' strike for a living wage in 1974 even went so far as to bring about the eventual defeat

of the Heath government. Far from condemning the strike, the movement applauded and took advantage of it to secure the election of a Labour government. These extra-parliamentary actions were necessary because rulers ignored the voices of the

poor and the powerless. They will probably be necessary again in the future to oppose elected, but tyrannical, governments and oppressive laws. Labour has never believed that

election by universal franchise gives any government a legisla-tive carte blanche and automatic moral authority for its every action. Odious and draconian laws have always been challenged extra-parliamentary action — and hopefully they always will be. Yours sincerely,

PETER TATCHELL. 45 Arrol House,

Farming research cuts From the Director of the Henry

Doubleday Research Association Sir, Lord Balerno's letter (December 22) tells only half the story of the Agricultural Research Council's surprise attack on our heritage and our future in the fields of agricultural and horticultural research. They are also shutting down the Pomology and the Food and Beverages Divisions at Long Ashton Research Station, and both these and the Scottishclosures will save £3m by 1983-84, a trifling sum compared with the annual loss on flying Concordes.

About 100 first-class scientific men will join the unemployed, breaking up teams working on new techniques of strawberry breeding, tissue culture, growth regulators, and microbiological safety in foods, all of which are more important in horticulture than microchins. It is folly to than microchips. It is folly to spend millions on methods of packing 64,000 "bits" of information on to penny piece-sized chips when you sack the men who are finding the knowledge that can only go on a chip if

omeone can do the research that Included in this short-sighted slaughter is the work of K. G. Stott, Britain's only willow expert, on harnessing biomass energy that grows on trees, with our national collection of only 300 varieties, compared with Sweden's 3,000. What is the use of training teenagers for scien-tific careers when the institutions that serve agriculture and horticulture, our most efficient industries, are destroyed by those who do not know enough to realise that when you cut out the growing points of trees you cripple them forever?

Lord Balerno's suggestion of axing the Agricultural Research

Council instead and dividing the saving between the research stations is an excellent one. These quangos should be the first to go.

I am, Sir, yours, etc, LAWRENCE D. HILLS, Henry Doubleday Research Association, Covent Lane, Bocking, Braintree, Essex.

London's transport

From Mr Nigel Seymer

Sir, The type of policy body which Sir Peter Masefield (December 22) has proposed for London is in fact the type that has been operating successfully for many years in Hamburg (where it originated) and in Munich. The Germans call it a Verkehrsverbund, which can best be translated as a transport confederation. It performs exactly the func-

tions which Sir Peter describes, i.e. it plans the development of a truly integrated public transport system: contracts with operators, including the main-line railways, to supply services at an agreed price; receives all revenues from fares and other sources, and acts as paymaster to the various operators (which may include private enterprise firms),

The growth of this type of organization in Hamburg was stimulated by the fact that the main-line railways (DB) had for years operated cross-town sub-urban services (known as S-Bahn) which were inevitably part of the local transport system, and they took the initiative in proposing the development of the -Bahn system.

This is in stark contrast to the total lack of interest of BR in developing cross-town services in London even where existing tracks are available (for a service via Blackfriars and Farringdon), which is no doubt due to "regional thinking" within BR. This is something that a London Verkehrsverbund, suitably staffed, might be able to correct.

But there is a much broader aspect of transport planning in London which a new policy body might be able to tackle, provided it is headed by people whose thinking is untainted by consideration of the vested interests of the operators and their employees and who are prepared unflinchingly to determine what are truly the most economic methods of providing adequate public transport for Londoners.

This is the question of whether massive investment in the BR rail system makes economic sense; and whether at any rate some of the routes at present occupied by BR rails would not be serving a far more valuable social function if they were converted into limited. they were converted into limitedaccess roads, on which express bus services could be run.
The GLC ought even now to be

giving urgent attention to this question, but is failing to do so; and the Government ought to make clear to the GLC that it is prepared in principle to make BR evacuate certain routes. After all the routes belong to the nation, and BR is able to keep functioning only because the Government gives it massive subsidies. Thus the Government is both BR's landlord and its paymaster, so there can be no question that the Government controls BR. Yours faithfully, NIGEL SEYMER, Bathealton Court, Taunton, Somerset.

Social science

Sir, May I offer your readers a foretaste of what we shall be telling Lord Rothschild? We seek to support both fundamental and practical work. I myself may tend practical work, I myself may tend to philistine vulgarity — in my own work I actually try to be useful; but not all good empirical work is of that kind; by any means, and I can assure Professor MacRae (January 12) that much of Our research is far removed from "plumbing".

Alas, by one of those ironies of public life, those journalists who are even more philistine than

are even more philistine than are even more philistine than myself lampoon us for supporting, say, "useless" social anthropology, while the most distinguished members of the professoriat deplore our attempts to be useful.

be useful.

Despite gunfire from both sides, we will continue to encourage both sorts of research, because we are certain, as Professor MacRae points out, that they are required. that they are mutually support-

Equally the work we support has in the past and will in the future be chosen for its excellence; we will encourage such work without fear or favour or political interference. Our independence under our royal charter will be used with discretion and such wisdom as we can summon, but it will not be surrendered.

It is most apparent, perhaps, in our support of macro-economics, where all the main strands of research are vigorously present in our portfolio; both those bits which ministers may seem to like and those they dislike. No monoliths are built in Temple

Avenue.
We do have to reject nearly 75 per cent of the applications that come to us, partly on grounds of timeliness or promise, partly because of shortage of cash. I keep an eye on the margin of rejection.
The last batch of near misses

that I inspected contained some good stuff that we should have liked to have funded — but they were a mixed bag, not left wing nor right wing, not especially "useful" nor especially "fundamental". Just good research. Yours etc,

MICHAEL POSNER, Social Science Research Council, 1 Temple Avenue, EC4. January 12.

From Professor Robert Moore Sir, In the article on the proposed Social Science Re-search Council cuts and reorganization (January 8) David Walker attributes to me views I attributed to others.

I have always found the facts about poverty, educational inequality and the occupational disadvantage of women to be maits posterior of the contract of the co quite neutral. Critics of the socia sciences (by no means confined to Conservative back benches) seem to think that the facts are themselves political. As a social scientist I subscribe to no such simple, and simply untenable, view.

Yours sincerely. ROBERT MOORE, Jniversity of Aberdeen, Department of Sociology, Edward Wright Building, Dunbar Street, Old Aberdeen. January 11.

The Golan Heights

From the Archdeacon of Oxford Sir, I think Professor Colonel Draper (January 8) has been rash in venturing to criticize the excellent and well-informed letter of Mr Terence Prittie (December

In view of the improper and

unfriendly use of the Golan by Syrian forces between 1948 and 1960, it is not surprising that "Israel has introduced...a system of law administration that would function in...a legal vacuum".
Professor Draper is correct in

stating that "Israel law has, in practice, been operative in the Golan for the past 15 years". Syria had no option but to keep out, following the defeat of Syrian forces in 1967.

If Syria and the other Arab countries would follow Egypt's example in the Camp David accord there could be the basis for a full and final peace between Israel and her Arab neighbours in that part of the Middle East which is so much to be desired. Yours faithfully, C. WITTON-DAVIES, Archdeacon's Lodging, Christ Church,

Capital error

Oxford.

January 8.

From Mr E. J. Nickson.

Sir, Your recent correspondents tell us that Ruritania employs Slavonic words for its currency, the party newspaper and its capital city. My recollection of The Prisoner of Zenda and its sequel is that all Ruritanians, including the proletariat, spoke German as their native tongue (thus enabling our hero to substitute effectively for the

We all know that, at the end of the last War, the Allies forced Poland to move bodily westwards and thus to occupy a large slice of German-speaking territory. But it was new to me that a similar thing had happened in Ruritania. Perhaps this has only now been disclosed from the latest opening of official records under the 30-year rule? Yours sincerely,

E. J. NICKSON, Secretury, Bund of Hope, 31 Lowiseld Road, W3. January 11.

Watson

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Forthcoming . marriages Mr. P. A. Darling and Miss V. A. Page The engagement is announced between Paul Antiny, elder son of Mr and Mrs Wrid. Darling, of Cleadon Village, Tyne, and Wear, and Valerie Asha, daughter of Mr and Mrs. P. A. Page, of Radlett, Herthridshire.

The engement is announced between Mark, son of Mr and Mrs & French, of Clements Reach Meopham, and Rohaise, daugher of Mr and Mrs D. Done, Foreland House, Isle of law.

Or R. H. Meyrick Thomas and Dr A. M. McArthur

The engagement is announced between Richard, younger son of Mr T. Meyrick Thomas, FRCS, and Mrs. Meyrick, Thomas, of farnborough Park, Kent, and Anne, daughter of the late Mr J. M. McArthur, FRCS, and of Mrs P. McArthur, of Blackheadh, SE3.

Mr R. G. Hall-Smith and Miss S. E. Dakin.

and Miss S. E. Dakin.

The engagement is announced between Rupert Gerald, youngest son of Dr and Mrs. Patrick Hallsmith, of Withdean, Brighton, Sussex, and Sarah Elizabeth, younger daughter of Mr and Mrs. Peter Dakin, of Hutton, Brentwood, Essex.

Dr. T. M. Tayler and Dr J. A. M. Jackson

The engagement is announced between Timothy, son of Dr and Mrs. R. G. O. Tayler, of Mrs. R. G. O. Tayler.

Bedford School

Easter Term begins today witi 1,130 boys in the school. J. C Bilton-Johnson is head of school. R. Cave is captain of boats and C. J. Bell, captain of hockey. Confirmation will be conducted by the Right Rev Cyril Tucker, formerly Bishop in Argentina and Eastern South America, on February 22. The choral society's concert will be held in the great hall on Thursday, March 11 at 7.30 pm. The appeal for the restoration of the main school building has reached £286,000.

Bristol Grammar School

Term began Wednesday, January
13. The head boy is Stephen Brooking. 450th anniversary celebrations include: choral and orchestral concert in Bristol Cathedral on March 17; Charter Day service in the cathedral on March 20 (preacher, the Vary Rev Sidney Evans (OB), Dean of Salisbury); Old Bristolians' Society dinner, March 20 (guest of honour, Mr Edward Heath, MP); Open Day at Tyndalls Park, March 24. Term ends on March 26. Examinations for 11-plus candidates are on February 6 and for 13-plus candidates on February 6 and Sunday, January 24. Term ends on March 25.

ry 9. The 450th Anniversary Appeal stands at £335,000.

Culford School Spring Term begins at Culford School today. The acting head-master is Mr David Anderson master is Mr David Anderson while Mr Derek Robson is on a sabbatical tour of the United States and Far East, Richard Guy becomes head boy. The Caucasian Chalk Circle by Bertolt Brecht, will be performed on February 17-19 in the Centenary Hall. Term ends on March 31.

First-class honours degrees at polytechnics

Polytechnic of North London

Polytechnic of Norm London
BA English: J Burnes, B P Buller, D S
Goldwaler.
BA French: Chantal M Calpini,
Naurika FG Lenner.
BA Modern Studies: J Kcale.
BSc Geography: B Nicholson.
BSc Architecture: B G Morris. Anne M

ooc archinesure: B G Morris. Anne M Towers. Bae Physics and Physical Electronics; M J Purser.

Lee Wah Tang Peter.

83c Chemistry: Kryss Kalslavriades.

83c Staninites and Computing: Allson J
Douglas. J Georgiou. Maria Panayi.
Lee Fang Soh.

Bachelor of Education: P A Barnard. D
J Contes, D T Curtis. Gillian Hibbs.
Deniso W Lamb. D Love. Marie T Reed.
Elgine G Richards, Carol Ross.

North East London Polytechnic A Business Studies: Tan Philip Puay

BSc Applied Economics: Charalambox Anioniades. Engineering: I G White. BSc Chamical Engineering: I G White. School of the Company of the Comp

Polytechnic of the South Bank

Englesering Design: JP Bakker, loriev. Environmental Engineering: SP Livan, Plymsh Patel Occupational Hygiene: Susan telom

ickleion. : Physics: R A D'Silva. : Quantity Surveying: M E Pontin : Secial Science: D M Condon, P J

Wedderburn. Thantes Polytechnic BSc Civil Engineering: A Powell. BSc Mechanical Engineering: S

gharoro. BSc Applied Chemistry: J.Singh, G D

thomatics: Bibl N Fakim.

hell.

Basiness Studies: Christine
her. Anne E Stravens.

Humaeites: P L Malthy, S P
Jin, N Phillips.

International Marketing: P R.

Jan.

ner. elit**ical Economy:** P W Francis. C

Manchester Polytechnic embined Studies: A J Chirinos

ombined Studies: n. A Fuller Mechanical English, K W West. hysics: R W Hiles, biymor Science and

Polymer Science and Technology; Wah Tang Peter.

Alexandra, Patron of the Guide Dogs for the Blind Association, and the Hon Angus Ogilvy were present at a Concert given by Barry Manilow at the Royal Albert Hall. Miss Mona Mirchell was in attendance.

Mr N. C. Hunter and Miss S. C. Warnock The marriage has been arranged between Neil, eider son of Mr W. Hunter, of Glasgow, and of Mrs M. Hunter, of Strathaven, Lanarkshire, and Sheona, only daughter of Dr and Mrs J. M. T. Warnock, of Tarbolton, Ayrshire.

Mr A. P. Gearing and Miss M. L. Lethbridge The engagement is announced between Alan, elder son of Mr and Mrs G. H. Gearing, of Wimbledon, and Mary Louise, elder daughter of the late Mr John Lethbridge and Mrs Diana Lethbridge, of Wimbledon.

The engagement is announced between James, son of the Rev Canon H. R. and Mrs Mumford, of Cerne Abbas, Dorset, and Susan, daughter of Mrs Wayne and the late Mr R. F. St B. Wayne, of Colkirk, Fakenham, Norfolk.

Mr C. M. Rowan and Miss K. Smith

The engagement is announced between Colin MacDonald, eldest son of Mr C. B. Rowan and the late Mrs E. J. Rowan, of London, and Katie, eldest daughter of the late Mr W. Smith and of Mrs F. Smith, of Waterford, Republic of Ireland.

.Mount St Mary's College Spring Term begins today. The scholarship examinations will held on February 14, 15, & 16. The London dinner will be held at the Law Society Hall on Shrove Tuesday. The reunion will take place at the Mount on the weekend April 24/25. Term ends on April 1.

The Oratory School Lent Term begins today. The school captain is P. J. P. Roberts.

Captain of soccer is D. G. Sutherland. Half-term will be from Fabruary 17-21. The school play will be performed on March 20 and 21. Term ends on March

Spring Term begins today at Plymouth College, M. Yeatman becomes head of school and J. P. Rucker deputy head of school. I. Waldock is captain of sevens. Confirmation Service is by the Right Rev E A I Macare Right Rev E. A. J. Mercer, Bishop of Exeter, at 10.30 am, on Sunday, January 24. Term ends on March 25.

The Richmond **Tutorial College**

Easter Term begins today. Daniel Pearl is head boy and Lisa Davidson is head girl. Exeat is from February 12 to 15 and term ends on April 1.

Spring Term opened on January
10 and ends on March 20 with the Service of Confirmation on February 26. The entrance and scholarship examination will be held on February 2; all enquiries should be made to the principal.

School, Guildford

Lent Term began on January 11, with 685 boys in the school. The choral society will perform a february 28. There will be performances of Twelfth Night in Great Hall on March 18, 19 and 20. The Old Guildfordians' annual dinner is on March 26. The of honour will be Morgan. Great Hall on March 18, 19 and make sure understudies are the eponymous nationality. Vienna and finds that all dinner is on March 26. The guest of honour will be Mr Cliff Morgan.

The Wardle): Tom Ronde-house): Michael Rog-frothy.

Nablei. 8**A Fine Art: Helen F S Cruiks, B** Downey, P M Mouniain, Judith AL

Ryan,
Ryan,
BA There Dimensional Design: Jane A
Adam Susan M Craswell. R Watson,
Gillian B whalley, R N Wright.
Tentiles/Fashieus: Nicola Durrant,
Choryl Jelic, N G Liderth, Kathieen A
Newington, Jill Richardson, Margaret
A Sellers, P Thomas
BA Psychology: Valerie P Cutting,
Memantiles/Social Studies: Martine A
Rillion, Jane S Lupion.
History of Design: Anne B Hayward,
Carol E Maunde:
BA Besiless Studies: Fileshall.

Cargi E Maunoc.

BA Business Stadies: Elizabeth M
Adams. J M Allegro. Linds Glements.
Susam Clifford. Jacqueline Davies. S
Hawkins. N Howell.
Bachelor of Education: Wendy Tweats.

Newcastle upon Tyne Polytechnic

Christine E Wardle.
BSc Sociology: R H MacLennan.
BSc Psychology: N G Morris.
BSc Applied Chemistry: Burbara
Johnson, K McLood, W F Pacynko, D G
Pollard, E D Ramsey.
BSc Electrical and Electronic Enginreving: B While.

ring: D While. Sc Mechanical Engineering: A core, D Nelson.

hather S(ewar).

A Combined Studies (Creative Arts):

A Eashleet P. Graham. Christine J.

App., Gillian Horner. Lesley Hurst.

A Hoe Art: J. Griffilias, Smita Maide,

forgina L. Parkinson, M. Pearce,

ntonia J. Sterman. D. Whatmuff.

A Graphic Design: J. H. Barraciough.

A Design for Industry: S. H. Montague.

T. Riley. J. R. S. John.

T. Riley. J. R. S. John.

A Modern Languages and Economic todies: Carolya Lightburg. Alison

eed.

enemics: PR Holmes. Nor of Education: Virginia

islaess Studies: Lorraine

Oxford Polytechnic hitectural Studies: J D Brown:

BA Architectural Studies: J D Brown. NG Spawion. R L Yates. BA Business Studies: N J Carpentor. K

Physical Electronics: A Cuthbert-N Webster.

Websier. story of Modern Art and Design; er S(ewart, mbined Studies (Creative Arts):

The following polytechnic students received first class honours degrees in 1981:

Polytechnic of North London

BSc Biological Sciences: J Chesham, Manda E Gont, Dierdre A Small, C C Townsley, BA Craphics Design: N L Gibson, S E Hudson, D C Waddler, BA Architecture: C D Bown, S JA Noblei

on.

Applied Biology: R N Lucken.

Bisc Mathematics: Kong Fal Loh,
Christine E Wardic.

Charalambos

Bisc Sociology: R H MacLennan.

Luncheons

HM Government
Lord Trefgarne, Parliamentary
Under-Secretary for Foreign and
Commonwealth Affairs, was host
yesterday at a luncheon given at
Lancaster House in honour of Mr
Frigyes Puja, Minister for
Foreign Affairs of Hungary.

Coachmakers' and Coach Harness Makers' Company
A court luncheon of the Coachmakers' Company was held at Tallow Chandlers' Hall yesterday, at which the Master, Mr J. S. F. Hogg, presented the Coachmakers' Award to Industry for, 1981 to BL Cars. Mr R. Horrocks received the award on behalf of the company, which was also represented by Mr H. Musgrove, Mr A. G. Ball and Mr M. B. Loake. The Master of the Bakers' Company, Mr F. A. Taylor, was also a guest of the company.

Dinners Hill Samuel Group

Hill Samuel Group

A dinner to mark the 150th anniversary of Hill Samuel Group was held at Painters' Hall last night. Sir Robert Clark, chairman, and the Hon Peter Samuel, deputy chairman, were the hosts. The guest of honour was Mr John MacGregor, Parliamentary under Secretary of State for Industry, and other guests included:

Mr Gordon Richardson, Governor of the Bank of England, and Mrs Richardson, Viscount Bearsted, Lord Richardson, Viscount Bearsted, Lord Richardson, Viscount Bearsted, Lord Richardson, Sir England, and Mrs Richardson, Sir Senden and Lady Edwardes. Sir Ernesi and Lady Carey. Sir Michael and Lady Hodgson, Sir James and Lady Hodgson, Sir James and Lady Menter. Sir Harry and Lady Moore, and Sir Harry and Lady Moore.

HM Government
Lord Carrington, Secretary of
State for Foreign and Commonwealth Affairs, was host yesterday at a dinner given at
Admiralty House in honour of
Mr Frigyes Puja, Minister for
Foreign Affairs of Hungary.

Royal Institution of Chartered Surveyors

The annual dinner of the land agency and agriculture division of the Royal Institution of Chartered Surveyors was held last night at the Hotel Russell. Mr M. H. A. Fraser, president of the division, was in the chair and other speakers were the Bishop of Bath and Wells, Mr N. E. Elliott, and Sir William Rees-Mogg.

Latest appointments

Latest appointments include:
Mr G. V. Marsh to be deputy
Health Service Commissioner
(Ombudsman) for England, Scotland and Wales from March, in
succession to Mr G. Weston, who
is retiring.
Mr Michael Faber to be director
of the Institute of Development
Studies, Sussex University.

Lord Cornwallis

Services of thanksgiving for the life of Lord Cornwallis will be held on Monday, January 25, at St Margaret's, Westminster, and on Monday, February 1, at All Saints Church, Maidstone, both services at noon.

THE TIMES THUKSDAL JAMORAL L. 2002

Margaret Foreman, aged 30, with her portrait of Lord Butler of Saffron Walden, CH, which was unveiled at the National Portrait Gallery yesterday. The commission was part of an award by Imperial Tobacco. The artist also received £4,000 in prize

Queen's visit to Edinburgh

The Queen's public engagements during her annual stay at the Palace of Holyroodhouse, in Edinburgh, were announced by Buckingham Palace yesterday.

On June 28, she will visit the 207 (Scottish) Air Defence Battery of the Royal Artillery at Edinburgh Castle. The next day the Queen will visit George Watson's College, Edinburgh, before attending the regimental dinner of the Royal Scots Dragoon Guards at the Signet Library as Colonel-iu-Chief.

On June 30, the Queen will open the new department of brochemistry at the Moredun Institute of the Animal Diseases Research Association. The next day she will visit Fife with the Duke of Edinburgh.

On July 2 the Queen and the Duke will attend a service of installation for Knights of the Thistle at St Giles' Cathedral before giving a Thistle lunch at the Palace of Holyroodhouse. In the evening they will attend the centehary ball of the Royal Scottish Pipers' Society in the Assembly Rooms.

Latest wills

Latest estates include (net, before tax paid):
Ireland, Mr. Sidney Joseph William, of Cowes. £213,382
Smith, Mr George Cecil, of Oaks in Charnwood, near Loughborough, farmer and coach builder. £1,209,962
Standish, Mr Alfred, of Notting Hill, London. £364,396

£1.000 Premium Bond prizewinners

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Moreover... Miles Kington

frothy but melancholy Vien-nese comedy to out-of-season to simulated happiness. ley Memoria joyous evening Frinton, where eight gloomy suburbanites pair off in different combinations but never quite make it. To make arrival of the Sunday newsmatters worse, the canapes run out in the second act.
Just before the final curtain Frinton is destroyed in a first-wave Russian nuclear saying that casual sex is saying that saying the casual sex is saying the casual sex is

different partners, Check to make sure understudies are

. Modular (English and Sociology): Iroline J Armstrong. Modular (History and Politics): T J

oper.

A Modular (Law and Psychology):

M Mocock.
(Anthropology and
ography): C N Shore.
(Modular (English and Sociology):
Hodular (English and Sociology):
Horyn L Smith.

Modular (English and Sociology); hryn L Smith Modular (History of Art and ich Literature): Elizaboth H

weelman
A Modular (Mistory of Art and
aglish): Tamsyn M Williams.
Ischelor of Education Modular
English and Nursery): Gillian R
Hodelar (Physical Sciences): P
Judgell.

dwin.

Modular (Mathematical and mputer Studies and Physical souces): R J Brogan (Environmental logy): Maria D Camacho.

Modular (Geography and Mathe-tical and Compater Studies): C D

màtical and Computer ottomes; Cony.
Sec Modular (Biology and Environmental Biology); DS Coumbes.
Sec Modular (Geology and Environmont): 1P Gross.
Sec Modular (Anthropology and
Education); Farina M Nagarwalla,
Sec Modular (Environmental Biology); Helen J Lley.
BSe Engineering: A D Reinecke.

Plymouth Polytechnic

e Biglogical Sciences: Gillian M insey Christine M Smith. E Civil Engineering: J C H Mackle.

lobson. Combined Studies: R Browning.

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y. P.J.E Haughton.
C. Geography: T W Auslin. D K
rguson. A R Butchings.
C. Mechanical Engineering: J Mavor.
C. Nautical Studies: D A Rankin.
Eastingss Studies: S T A Blower.
La J James, Janet Pollard. I D
Ligoose.

Portsmouth Polytechnic

Computer Science: Gillian A

dy. Electrical Engineering: P J Blics, n Tak Ka. Liew Choon Chin, Sze-ng Keung, S J Goldsworthy, D.L

Hobby.

BSc Mechanical Engineering: Chang Sow Just, K M Clarke, J L Swan.

BCC Pharmacy: Sarah J Boach, R J GCC Pharmacy: Sarah J Boach, R J GCC Pharmacy: Sarah J Boach, R J GCC Pharmacy: SF Schaeper Floraula M Buckley, Lisa Micholis.

to simulated happiness. joyous evening of 1920s song, The Mousetrap (St Martins): dance and jazz. Eight tal-Eight people trapped in a ented black country house by the non- very thin tall men and four

BA Spanish Studies: Faith S Harris. Lorraine White. Bachelor of Education: June M Morrigan.

Preston Polytechnic

BSc Mechanical Engineering: S Daley. BA Psychology: P H Cobb.Sylvia

Smith.

BA Beginess Stodos: I R Anderton.

BA Fashion: Brenda Whilehursi.

BA Fine ArtM J Ivos. A J Lysycia. K

McCluskey.

BA Graphic Besign: Jaqueline Cobb. R

A Rowinski, J G Rushworth.

Sheffield City Polytechnic

Sactaria City Forfectinic BSc Applied Chemistry: S J Buckland. D T Macpherson. BSc Applied Survice: S E Franklin, D A Johnson. ESc Applied Stastistics: D P Rose. ESc Applied Stastistics: D P Rose. ESc Computer Studios; J Henderson. Anne M Illingworth. M H Love, Joanne

or. Centrel Engineering: S N collogs.

debottom.
So Engineering: A Branson, G Clark.
Rechall, K D Thornhill
ic Engineering with Business
wides: D M Williams
ic Urban Land Economics: G F
amail.

amail.
A Three Dimensional Design (Indes-al Design): S.J. Hrubiak,
A Turse Dimensional Design (Silver-although and Jewellery): J. E. Brown,
N. Bush,
A. History of Art, Design and Film:
Rose.

A Mistary of Art, Acceptance Rose.

Rose. Art: A E Edmonds. T P. Syrnicy. Deborah J. Milgoins. R B. B. Cason. Anne. Lydial. Julie S. Cason. Anne. Control of the Control of

Sunderland Polytechnic

n Sin Gan. c Electrical and Electronic Engla-ing: IR libbitsop. c Mechanical Engineering: M P

ott Communistion Stedles: Christine H Ikiey, R.A. Harrison, Business Studens: P.F. Gordon, Fina Art: Vzjerie Clase, Yuk Ying

Combined Studies in Science:

Materials Sections:
West
Pharmacy: Dorothy Dodds,
ericy Lumicy, Cilayd S Patel,
befor of Education: Maureen Ford,

Instrumentation and Systems: A

Electrical and Electronic Engla-ng: N Harrison

Now that Schnitzler's La Stoppard's bravura adaption of La Ronde, fizzing after 50 years, there are already more than 43 productions of it on show, including adaptations. Here is a list of the most interesting.

Stoppard's bravura adaptions denov's stunning transference of Schnitzler's gay but frothy comedy to the Bog-side, where it becomes an indictment of the British Army for using cheap Austrian psycho-analysts as their duction which captures all chief torture squad. Bogdaths specified by the specified by th

Frinton is destroyed in a first-wave Russian nuclear saying that casual sex is attack, but it hardly seems meaningless if not followed to make much difference. Highly recommended.

Schnitzler! (Shulman, The Strand): Michael Crawford on the high wire, with seven different partners, Check to the group man and finds that all the group man and finds the group man and finds

Trent Polytechnic

Connolly. BSc Applied Chemistry: D Holmes.

ree. Creative Arts: Pearl M Hollis, Barel M New.

Creatuse arts: Peorl M Hollis, Igarel M New.
Economics: I W Thompson.
Economics: I W Thompson.
Fine Art: C J Banahan. P Grubb, ndy i Smith. R A Urbanski. M Notion.
Fine art: C J Banahan. P A Bryan, T P Commissione Design: P A Bryan, T P Commissione Design: P A Bryan, T P M Lernon.
Knitwaar Design: Jane E Silcer, lian L Squires.
Textile/Fashion (Fashion): P A: poks, Josephine Costantino. Alison ewis.

cwis. Textiles/Fashion (Textiles): ndy M Carlion, Vancsia C Roberts. Three-Distansional Design teatre): Jeannette S M Edwards, N Merryweather.

: Civil Engineering: Gwyn Charles e, A Falleyn, Vahigh Peshkam : Combined Sciences: M Brake, Sian ody, Louise Randall. : Mathematics: R K Jones, Communication Studies: Iris M

nitles: Joliana E O'Sullivan.

The Polytechnic of Wales

The Polytechnic, Wolverhampton:

85c Applied Chemistry: V Brailey, N
M Griffiths, M J Turvey
BSc Biological Sciences: S C P Hale, M
Hodges, Maureen P Nyatoli, Lynno V
Purchase.

rchase c Combined Studies: P.J. Byrne. D.S dgsgn, Helen Christine Jackson, P.T. Besiev. Besiess Studies: A.F. Smith, R.C.

uren.

Design of Carpets and Related stiles: Linda P Barker, Beverley A mey, R P Sheriock, Linda J Wyall, A Three Otmensional Design (Cor-

Three Olmentsonas seemin (con-s); K. J Hardwick, Arpe Dimensional Design (Wood-al/Plasties): N A Coldham, P. D Son, S. J Sykos, conomics: P Mills, Multidisciplinary Studies: J R

i Fine Art: TT Bond, JR Crocker. Craphic Dosign: KH Hollis, GR

or of Education: M J Lobb. J L

Birthdays today



Miss Maina Gielgud, the

captain Alastair Airu, 51; Pro-fessor Sir Melville Arnott, 73; Mr Peter Barkworth, 53; Mr Richard Briers, 48; Baroness Brooke of Ystradfelke, 74; Lord Catto, 59; Mr Trevor Nuan, 42; Sir Neil Pritchard, 71; Sir Percy Rugg, 76; Dr Solomon Wand, 83.

University news

The following awards, appointments and elections have been Barker. B Klingert. Stephanie M Mason, Joan P Reeves.
BSc Ceprouter Science: H Tan. S
Wells, Ting S Wong.
BA Basieres; Studies: P F Dwyer.
BA Humanities; Jean E Woodhouse.
BA Turee Dimensional Beaign (Interior Design): Janke Webster. G V Applied Biology: A J Newbould. Applied Chemistry: Paul C sley. : Civil Engineering: C M Harris, S A Wilde.

BSc Production Engineering: P H Bye.
M H Guileridge, C A Siwka.
BSc Quantity Surveying: R N Baylis.
Supan V Moader.
BSC Union Estate
BSC Union Bottom.
Backeter of Estate
Anno E Moredith Diane C Selby.
BA Business Studies: M J Day, Janel
Margee.

Dr Anthony J. Sanford, reader in psychology, has been appointed to a chair from October 1, 1982.

New violence in Budapest

Vienna, Jan 11. — Workers at a Budapest engineering works struck today because of a report that wages were to be reduced by 200 forints a month. Workers at the neighbouring factories also struck. The strikers demonestrated against economic conditions and attacked the Kadar Government Soviet ranks surditions and attacked the Kadar Government. Soviet tanks surrounded the factory. Hungarian militia were posted outside the locked gates and shots were fired. Western Correspondents were not allowed to enter the cordoned-off area. The tension is not being alleviated by the death penalty pronounced today by a court martial in BEKESCABA on a man and a girl aged 20 for



ballerina, who is 37.

Glasgow

25 Years Ago From The Times of Saturday January 12 1957

there was scarcely an organization in Bromley and the surrounding district set up to help those needing help with which in her long life she had not been connected. One of five sisters she was

secretary to several Ministers and she married Sir Arthur of Transport. Gaye as his second wife

which she sat from 1958 to 1965. In 1972 she was made OBE for her work for the elderly in north-west Kent. She was founder chairman

of Age Concern in Bromley and a member of the Kent

H Young,
A Architecture: P.Lo.
A Business Studies: C Avery, C J
Sec Civil Engineering: The Wook.
Sec Civil Engineering: Choon E

protections page 15

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Falls

PRICE CHANG

51-

Mr Bernard Gilbert Stan-comb Cayzer, who died on December 27, was a leading though unassuming phil-to restore and furnish in its anthropist and a member of original Georgian splendour. 124T 42T 124

the notable shipping family.
Educated at Eton and Magdalene College, Cambridge his early business career with the family's Clan youth clubs in the more deprived areas of London. He became chairman in 1970 and from then on was the association's inspiration and chief benefactor. A frequent visitor to the clubs, he supported youth leaders and, knowing many members by name, worked to widen the opportunities available to

young people. His close interest in sea-men's welfare led to him becoming a very active and generous chairman of the oldest marine charity — the Marine Society — in 1976.

His interest in the theatre

encouraged him to help establish the Denville hall for Aged Actors, managed by the the Actors' Charitable Trust His inherent good taste and eye for colour helped with the design and decor of the Wellington Hospital in London, the B&C Group's Mount achieve its world leadership

Nelson Hotel in Cape Town, botels in the Canaries and, of course, the beautiful lavender hulled ships of the Union this man of many parts. He spurned reward, looked upon heyday, were always sent on duty as pleasure, upheld a their way from Southampton notable tradition and, following the motto of his family 'clock on Thursdays. company "Tendimus" ("We His love of architecture led Press Forward"), left this life to him buying, in 1967, No. 1 better than he found it.

PROFESSOR H. G. HOPKINS

OBITUARY

MAJOR-GENERAL

F. C. ROBERTS, VC

Bravery during the German

offensive of 1918

inspiring all ranks under his

On one occasion the enemy

launched a strong attack against a village, and almost cleared it of British troops.

At that critical moment, Roberts realized the serious-

ness of the situation, and getting together an impro-vised party of men, led a counter attack in person, with the result that the

enemy troops were temporarily driven out of the

village. Roberts's party were

willage. Roberts's party were thus able to cover the retirement of troops on their flanks who would otherwise have been cut off. The success of the action, it was stated when the notification of the award of the Victoria Cross was published in the London Gazette of May 8, 1918, "was entirely due to his personal valour and skill". In the course of the War he was wounded three times, repeatedly referred to in orders, and mentioned in dispatches seven times.

seven times.

After the war, Roberts
served for a time with the

Egyptian Army. After leaving Egypt he went to the Rhine Army as brigade major, and

stayed there for nearly a

Subsequently he saw ser-

Subsequently he saw service in China, Iraq, Ireland and India. He was promoted Major-General in 1939 and from June to October that year commanded the 48th (S Midlands) Division, TA.

He married in 1932 - Winifred Margaret, daughter of J. D. Wragg. She died in 1980.

Major-General Frank
Crowther Roberts, VC, DSO,
OBE, MC, who was awarded
the Victoria Cross in recognition of the bravery and
military skill he displayed at
Pargny, near Peronne from
March 23 to April 2, 1918,
died on January 12 at the age

March 23 to April 2, 1918, died on January 12 at the age of 90. At the time he was serving with the 1st Battalion, The Worcestershire Regiment to which he was gazetted when he entered the Army in 1911. He went to The Royal Warwickshire Regiment when he obtained his majority in 1927.

Born on June 2, 1891, Frank Crowther Roberts was the son of the Rev. Frank

the son of the Rev. Frank Roberts. He was in France from the outset of the war and was still a lieutenant

when on January 3, 1915, he won the DSO.

In October, 1917 — the year he won the MC — he was given command of the first battalion of his regiment with the acting rank of

with the acting rank of lieutenant-colonel.

meutenant-colonel.

The award of the VC was made to him for continuous bravery over a period of 12 days during the desperate fighting which took place at Pargny, near Peronne, in March and April 1918 when the repeated onslaughts of

March and April 1918 when the repeated onslaughts of the enemy necessitated the strategic retirement in places, of the British troops. Throughout Roberts showed bravery, as well as excep-tional military skill in dealing with the many year difficult

with the many very difficult situations of the retirement, and great endurance and energy in encouraging and

Line was interrupted by the Second World War in which,

Second World War in which, as a major in the Queen's Westminsters K.R.C. (T.A.), he served in Military Intelligence. After the war, he managed the Clan Line office in Glasgow, becoming a director in 1947. In 1956, Bernard Cayzer was made a director and deputy chairman of the British and Commonwealth Shipping Company where his responsibility for staff welfare and the

staff welfare and the customer relations side of

shipowning drew on his capacity for caring for others in a way which humanized

the company's activities and helped to build a uniquely successful business.

Castle Line which, in their

by Bernard Cayzer at 4

o'clock on Thursdays. 📑

MR B. G. S. CAYZER

Professor Harry Geoffrey
Hopkins died suddenly on
January 4, at Goostrey,
Cheshire. He was 63.
He had held the chair of
He was the editor of the
journal of the Mechanics and
Physics of Solids, a member
of the UMIST Court, 1969-71,
He had held the chair of
UMIST council, 1974-76, vice-Applied Mathematics at he principal for finance, 1974-77, and deputy principal, 1976. He was chairman of the University of Manchester Institute of Science and Technology since 1966 and Structure Sub-Committee of the Aeronaumics Research Council, 1976-77, and a member of the Airframe Materials and Structures Committee, 1977-80. He was elected a Fellow of the enjoyed a distinguished international reputation in the field of the Mechanics and Physics of Solids. He was a graduate (later a Fellow) of University College, London, and spent the earlier part of his career in the Scientific Institute of Mathematics and Its Applications and of the Civil Service. He held posts at Royal Astronomical Society in 1964, and a Fellow of the American Society of Mechanthe Royal Aircraft Establishment, Farnborough, and later became Deputy Chief Scien-tific Officer (receiving the Appleton Individual Merit Award) at the Royal Armament Research and Development Establishment, Fort Halstead He also held Visiting Professorships at Washington State University

ical Engineering in 1979. He was much respected by all who knew him for his kind and gentlemanly man-ner and for his great sense of fairness and the objectivity which he brought to bear throughout his work on a multitude of university and Brown University in the committees.

MISS BERTHA JAMES

Miss Bertha Holland alderman three years later.
James, OBE, who died on In May 1970 she was elected
January 7 at the age of 84.
was a former Mayor of Bromley. Her life was devoted to public service and Kant Cand education on them.

One of five sisters she was educated at Roedean and Newnham College, Carabridge. She captained the university women's tennis Housing Society and worked team and retained all her life her interest in the game.

In the Second World Warshe worked in Civil Defence to build flatlets for the elderly; indeed any organization engaged in building homes for those unable to build their own attracted her

she worked in Civil Defence driving an ambulance. In 1946 she was elected to the former Chislehurst and Sidcup Council of which she became chairman in 1963-64. On the formation of Bromley Borough Council in 1964 she was elected for the Chislewas elected to the bound their own attracted her interest. She had been chairman of the family practitioner committee of Bromley Area Health Authority and a governor of Stockwell College.

court martial in BEKESCABA on a man and a girl aged 20 for taking part in open rebellion. Fifteen others were sentenced to terms of imprisonment ranging from five to 15 years.

Mar Benis O'Neill, CB, who Lady Gaye, widow of Sir Arthur Stretton Gaye, CB, age of 73, retired in 1968 as Under-Secretary, Ministry of was Mary Baird, only daughter of Sir David Wilson, Bt, secretary to several Ministers and she married Sir Arthur Stretton Gaye, CB, OBE, died on January 2. She under the court of the cou

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UK hopes in £800m Saudi power plan

By Rupert Morris
The British electricity
supply industry has won an
important victory over American competition in SaudiArabia by persuading the
Saudis to adopt a system that
will favour British manufacturers, bidding for a share of turers, bidding for a share of work worth £800m.

British Electricity Inter-British Electricity Inter-national, the overseas consul-tancy arm of the Central Electricity Generating Board, is advising the Saudis in Riyadh, the capital, where a £40m supply system is planned, with much of the construction, electrical and control equipment hopefully to be supplied by British

But the bigger prize is the national grid system which will cover 5,000 miles and cost about £800m to build between now and the year 2003.

The Saudis are working to a plan prepared by the American consultant Charles T. Main, but have rejected its advice in two significant areas.

The American system, based on gas turbines would use voltages of either 220 kilovolts or 500kv. The system favoured in Europe is 400kv, and BEI's representations to the Saudis have been supported by the French, who are influential in the south, and the Germans, who have a foothold in Jeddah and the west. A 380kv system is now expected to be adopted nationally.

The Saudis are also moving

away from reliance on gas turbines in favour of thermal steam plant, with big power stations cooled by sea water on both the Arabian Gulf and Red Sea coasts. BEI reckons the new system will save 70 million barrels of oil a year.

It has been a deliberate Saudi policy to have a multi-plicity of foreign technical advice and BEL, which has a 90man team in Riyadh, seems to have won increasing Saudi

BEI's success is all the more welcome as Britain has lost ground 10 years ago with the Saudis' decision to opt for American frequencies of 60 hertz, rather than the British 50 hertz — giving American manufacturers a head start.

The new electricity pro-gramme will provide oppor-tunities for British firms to

true profits and reserves, and

asked the Government to

press strongly for an

amendment.
The Lords European
Affairs Committee, under the
chairmanship of Lord

chairmanship of Lord Plowden, objected to a clause which would enable banks

throughout the European

Community to maintain un-disclosed reserves in their accounts, and said the pur-pose of the directive will be

First step by a'Court to capture ACC

Robert Holmes a'Court last night took the first step towards making a takeover bid for the voting shares of Lord Grade's Associated Communications Corpor-

His proposals to surmount His proposals to surmount the major obstacle to gaining control of ACC — cutting back the 51 per cent which ACC owns of Central Independent Television — were given to the Independent Bradcasting Authority late last night. The IBA said that a decision on the proposals a decision on the proposals, details of which were not known, would be made after they had been considered and a meeting of the Central Independent television board this mercing

this morning. The IBA said that Mr Holmes a'Court has given it notice that he was making what they described as an offer for ACC.

The IBA has already said that it will not agree to a non-British resident controlling a United Kingdom

on the Stock Exchange on Monday pending an ancompany. At a suspension price of 54p, the company was worth around £29m. Mr Holmes a'Court, who joined the board last monthand took. the board last monthand took party, possibly after enfran3 per cent of the voting chising the non-voting shares, spent most of last shares. This is based on year picking up more than 50 observations of his past per cent of ACC non-voting stock, now worth £15m

voting shares and it is by the Post Office pension believed that he will sell Mr fund who are objecting to the Holmes a'Court enough of as president of the company.

But the move by Mr meeting to approve the payout has been adjourned. The group has already of many in the United Kingdom. Australian sources

n sources fittings, process plant and high technology control systems.

say he has identified between pay over any money or sell technology control systems. Lords seek disclosure by banks

By George Clark, European Political Correspondent

A House of Lords committee yesterday criticized an EEC directive for failing to insist that all banks should be severely hampered if neither the profitability be forced to publish financial statements showing their true profits and reserves and the London Discount Market Association

Another recommendation is that the directive should

and trustees savings banks under the same accounting regime as banks and licensed



assets within the group which he could liquidate to finance the purchase of a new company, Fleet new company, Fleet Holdings, being set up by fellow ACC director, Lord Matthews, which will include all Express Newspaper titles, Morgan-Grampian and the South Wales Argus. The publications are at present owned by Trafalgar House.

According to Australian analysts, a clue to Mr Holmes Monday pending an an-a'Court's intentions will nouncement concerning a come from which of his change of control of the companies he uses to gain control of ACC. They say that if he uses a loss-maker, it will indicate that he intends to sell on to a third

stock, now worth £15m.

It is known that Mr
It is widely expected that Holmes a Court has ambihis plan will mean the end of tions in the United Kingdom
Lord Grade as £203,000 a year to be an influential newschairman of a company he paper and television owner. built up over 25 years but Meanwhile, in a statement which lost £8m in the first half of this financial year. embroiled in a legal battle Lord Grade can influence with 10 of its non-voting around 27 per cent of the institutional shareholders led voting shares and it is by the Post Office pension believed that he will self Mr. found who are objecting to the

Strong arguments were put by the Accepting Houses Committee and the London Discount Market Association

by undervaluing their loans and advances by up to 5 per

lation for allowing undisclosed hould reserves, but non-banking all witnesses were overwhelming

cover substantially all witnesses were overwhelming deposit-taking institutions, whether or not they are limited companies. That would put building societies create undisclosed reserves

leposit-takers.

Institutions which grant Communities annual accounts of redit without taking banks (HMSO, 26.35).

Lloyd's to pay for Gulf war ship's bill

A judge has ruled that Lloyd's of London underwriters are responsible for what may be a \$100m (£53.3m) insurance bill for some of the 70 ships held up in the Shatt-al-Arab waterway as a result of the Iran-Iraq war.
Mr Justice Staughton yes-ternay gave his decision on a

dispute involving a German-owned ship, the Bamburi. It is being used by underwriters in establishing guidelines to determine whether those writing war risk business or writing war risk business or those writing blocking and trapping business will have to meet shipowners' claims.

The judge decided that there was a "restraint of princes", which means that vessels had been stopped from sailing in the Gulf since the date the Iraq Government prevented navigation in the waterway, but that this could not be considered a peril of "hostilities or warlike oper-

between such a peril and the apprehension of it, the judge said.

"hostilities or warlike oper-

Legal experts last night interpreted the decision as meaning that underwriters of war risk clauses are liable for claims, except where there are clauses, known as "long J exclusions", which specifically exclude the Gulf region from claims resulting from

"restraint of princes".

Ships have been held up in the Gulf for over a year. They have a total insurance value of around \$400m. Some claims have already been settled, but others have been awaiting the outcome of Justice Staughton's decision.

GOLDFINGER ON LLOYD'S



Lloyd's underwriter Mr. Ian Posgate (above) has been elected to the ruling com-mittee of Lloyd's, the London insurance market, by the narrowest of margins. In the first by-election for a new member following the sudden resignation of Mr Robert Kiln last November, Mr Posgate received 1,264 votes — 27 more than Mr Peter Daniels, the managing direc-tor of Lambert Brothers (Underwriting Agencies) who

stood against him.
Nicknamed "Goldfinger"
in the market because of the success of his underwriting syndicates, Mr Posgate has attracted criticism for his aggressive and competitive style and for the stance he has taken on the Lloyd's Bill. He said he would fight to preserve free trade for the



Decca fixes on to profits course

Decca is poised to make a last year on the ailing stong contribution to Sir television to marine radar Ernest Harrison's Racal business. Thanks to the sale Electronics group. After of its colour television businessing off GEC in a £105m ness and loss elimination takeover battle almost two elsewhere, Decca contributed years ago, Racal lost £2.4m £5.27m to Racal's first half

pretax profits, compared with losses of £5.2m for the same period last year. Racal's first half profits rose 45 per cent to £38.4m on a 26 per cent sales gain to £304m.

TREASURY **OPTIMISTIC**

ON OUT UT

By Francis Williams

in productivity may herald a permanent shift to more rapid productivity growth, the Treasury cautiously concludes in an article published yesterday in its

But the Treasury believes

face strong pressures to

iplovers will continue to

Recent steep improvements

Northern Foods in £37m American deal

By Drew Johnston

Northern Foods, the Hull-resenting around 45 per cent based dairy products, meat of the food chain's total and cereals group has bought the American Keystone Corporation, the main suppliers of frozen hamburgers to the vast McDonald's fast food chain, in a deal worth \$69.13m (£37m). Keystone also has a joint

Northern, whose cus-tomers also include Marks & Spencer and Sainsbury raised £41m by a rights issue in November and has since been expected to further its pres-

by Mr Herbert Lotman, chairman and president, with his wife, Northern paid \$22 for each share which had And while market opinion is that the hamburger market in the United States is fairly been trading at \$15%-16 before the bid. mature, diversification into chicken based-products, such Mr Jack Clayton, North-ern's finance director, said yesterday he expected about as the McDonald's "Chicken McNuggets", is expected to provide opportunities for half the cash for the deal would come from the pro-

Northern's ordinary shares at the deal. "Keystone provided all the poultry products for McDonald's, but has recently been joined by a second supplier, Mr Horsley

Under the terms of the deal, which will have to be approved by the companies' shareholders and both governments a new company will be set up and Mr Lotman will stay on as chief execu-

Financial Editor, page 15

venture operation with McDonald's British affiliate for the manufacture and sale of frozen hamburgers. Mr Clayton said this operation is fairly modest, but Northern, which has no fast food outlets, expects this to grow along with the McDonald's chain.

In 1980 it paid £35m to buy
Bluebird Foods of Philadelphia. To buy Keystone, which is 22 per cent owned by 'Mr Harbart I amount of Keystone's United States operation is expected to come from supplying poultry products to McDonald's

國 Stock Markets FT Index 527.3 up 2.7 FT Gilts 62.30 up 0.38 FT All Share 307.45 up 1.23 Bargains 13,169

- Sterling \$1.8680 down 65 pts Index 90.3 down 0.4
- Dollar Dollar Index 108.4 unchanged DM 2.28650 up 10 pts
- 🖾 Gold \$380.50 down \$8.25 New York: \$412.70
- Money 3 mth sterling 151/-151/a 3 mth Euro \$141/a-131/a 6 mth Euro \$141/a-141/a

PRICE CHANGES

Rises [,]	
Allied Colloids Boustead Damson Oil Devenish Fisons Gen Accident Horizon Travel Lloyds Bank Nthgate Explor	13p to 155p 8p to 109p 9p to 485p 8p to 298p 9p to 160p 8p to 308p 10p to 308p 10p to 430p 10p to 245p
P & O Dfd	6p to 139p 10p to 325p
Rand M Prop Redfearn Nat	8p to 126p 8p to 336p
Royal Unilever	8p to 618p

8p to 399pp Venterpost Falls Anglo Am Corp 21p to 619p Blyvoors 27p to 479p 10p to 420p Castlefield 20p to 325p Chesterfield Cons Gold Fields8p to 452p 9p to 335p 12p to 750p De Beers Did Barrison Cros 20p to 670p TU int

31p to 519p Kinress Rio Tinto Zinc 80 to 167p 12p to 363p Otherty PB 28p to 600p UC luvest 33p to 479p

EEC fights on steel

European Economic Community industry minis-ters gave their backing in Brussels yesterday to Vis-Brussels yesterday to Vis-count Etienne Davignon, the EEC industry commissioner, who has rejected anti-dump-ing complaints brought by eight American steel com-panies against European producers.

They agreed that high wages, obsolete plant and the strong dollar were to blame for the American industry's problems rather than competition from steel imports and are likely to send a message to the American Government setting out the EEC case.

Swiss sales hit gold prices

The price of gold slumped to \$378 (about £201) an ounce at one stage yesterday. The fall was triggered by substantial selling out of Switzerland believed to represent liqui-dation of gold holdings by big investors. It closed in London down \$8.25 at \$380.50, its lowest level since

November 1979.

Britain's industrial prob-lems continued to depress sterling on world currency markets. It dropped a further 65 points against the dollar to end London trading at 51.8680, while the index measuring its wider international value fell 0.4 to 90:3.

Statoil, the Norwegian state oil company, announced a new gas discovery yesterday which doubles the country's estimated reserves in its North Sea Sleipner field to at least 200,000 million cubic

BUSINESS BRIEFING

Now coal goes ro-ro

Coal is to transported from by savings on handling ritain to Belgium for the charges, and it hopes to win further orders for the transport of other bulk commodities.

The deal enables the NCB Britain to Belgium for the first time using container ships instead of the more usual bulk carriers. Half a million tons of coking coal will be shipped over two years from Dover to Zee-brugge by the Sea Containers

The first shipment will be made next month under a contract between the NCB and the Carcoke company of Belgium. Sea Containers, which arranged the deal, will be paid about £2m.

adapted containers is offset profitable later.

to dispose of surplus stocks of coal from its uneconomic Kent coalfields and to maincompany for the National tain its export drive.

Coal Board.

Coal exports in this financial year have almost doubled

to nine million tonnes, Sir Derek Ezra, NCB chairman, said in Glasgow yesterday. Much of this coal is sold at a loss - and the Belgian deal is almost certain to be a lossmaker — but the Board believes that export links The company says much of believes that export links the extra expense of specially established now may become

The Ferranti unit, called

The systems will be sold to

the European and American

Make yourself a CAD

Ferranti Electronics has launched what it claims is the world's first remote comworld's first remote com-puter aided design (CAD) system which will allow a user to design his own densely-packed micro-electronic circuit.

expected to be assembled in Edinburgh and the software developed in Manchester.

☐ An Ipswich company formed only four years ago yesterday announced its first order worth more than fim.
W.E.M.S. Manufacturing is
to build 220 generating sets
for the Middle East.

Brazil achieved a visible trade surplus of \$1,200m (£640m) in 1981, its first since 1977.

set to rise New car sales, thought to

be 2 per cent down last year on 1980, should more than on 1980, should more than recover this year, according to Mr Michael Lacey, director of Glass's Guide, the motor trade prices guide. Sales should recover by 50,000 vehicles to around 1.53 m, an increase of 3.5 per cent over the probable 1981 outcome.

ceeds of the rights issue, although final details of financing have not been

Speaking from Philadel-phia, Mr Nicholas Horsley, chairman, said he expected the other half of the \$69m

purchase price would be financed through new debt.

In the 9 months to November, Keystone recor-

ded pretax profits of \$7.8m. a

70 per cent increase on \$4.5m

last year. Sales grew 13 per cent to \$357m. Over 90 per

cent of the company's output goes to McDonald's, rep-

Car sales

worked out yet.

Imports' market share may ease marginally to about 55 per cent from 55.7 per cent, Mr Lacey says in Credit, the Finance House Association journal. He expects new car prices to rise by 13-14 per The Institution of Motor-

cycling said yesterday that despite the additional 10 per cent sales tax, sales of motorcycles, scooters and mopeds reached 275,000 last year, the fourth best postwar year. Mopeds held up their sales compared with 1980,

a graphics display unit with a keyboard and all the accompanying electronics, accommodated in only 10 US sanctions

United States sanctions against the Soviet Union for its interference in Poland will not affect the German Dutch unemployment rose to a postwar record of Lambsdorff told a cabmet 449,700 in December, 302,000 meeting in Bonn yesterday.

Reporting on the chief Government spokesman Mr Kurt Becker said that Dr Lambsdorff made it clear that no with United

dorff made it clear that no sub contracts with United States companies would be affected, although the United States companies acted as chief contractors.

Change gas tax plea

Taxes on North Sea gas must be changed if the gas is to be fully developed and chemical production sus-tained. Mr Robert Horton, managing director of BP Chemicals, said yesterday. If the present system of taxing offshore oil production were also applid to gas, it would be "a serious disincentive" to chemical production, Mr Horton told the Edinburgh beauty of the

the Edinburgh branch of the British Institute of Manage-He said legislation enabling companies to sell gas to other parts of their operations at stable prices for assessment of Petroleum Revenue Tax should be extended to outside

We must not let the development of these resources grind to a halt because of a confused and potentially inhibiting tax system," Mr Horton said. He said Britain needed a gas-gathering pipeline to replace the £2,700m scheme

companies.

abandoned last year; he did not expect alternative schemes to come into operation until the late 1980s or early 1990s. British Gas paid £130m to the Exchequer this month, bringing its total contributions to more than £500m during the financial year.

orders fell 18 per cent to 5.3 million gross tons last year compared with 1980, the Japan Ship Exports Association said yesterday. December's foreign orders fell 67 per cent to 204,000

month on 1980.

union join hands to cut prices Detroit, Jan 13. — General Motors' white-collar workers

right up to the company chairman will match union wage concessions proposed by the United Auto Workers and pass the savings directly to car buyers to boost sales, according to a Preliminary agreement between the management and unions.
Union leaders also outlined
the proposal to Ford Motors

today and will somerrow present them in detail Ford officials declined comment, saying they first wanted a chance to hear the complete proposals and then respond to the union.

But it is not clear whether Mr Fraser's optimism about the potential impact of any labour-cost concessions on car prices, or car sales, is warranted. While the extent of such concessions has yet to be negotiated, the minimum \$100-a-car reduction Mr Fraser mentioned would represent less than 1 per cent of the average GM car's price. Most industry price. Most industry observers believe it would take a reduction of 10 per cent or \$1,000 to stimulate

cent or \$1,000 to stimulate car sales adequately.

Because of GM's willingness to pass cost savings directly to car buyers, the UAW would be willing to make more extensive concessions than it would have if the benefits were all flowing the benefits were all flowing directly to GM, Mr Fraser said. But he predicted that the concessions would not extend to cuts in car work-

ers' present wages.
Mr Roger B. Smith, GM's
chairman, said that GM's concessions held out the prospect of price reductions to new-car buyers. "This could usher in a new era of labour-management cooperation because it addresses the heart of the problem in our

published yesterday in its Economic Progress Report,

It takes a significantly more optimistic line than some other ananlysts, including the Bank of England who fear that productivity gains will be largely dissipated once economic growth gets under way because employers will start recruiting much of the labour shed during the recession.

But the Treasury believes

ICI expansion Imperial Chemical Indus-

restrict recruitment to keep down costs and improve efficiency. It cites expec-tations of "only moderate tries is acquiring, through ICI Americas Corp., full ownership of Rubicon ownership of Rubicon Chemicals as a further step economic recovery", low profitability in many com-panies and, in manufacturin strengthening its world polyurethanes business. ing, stiff foreign competition: over of \$100m (£53m).

Building society figures reflect poor homes market

By Lorna Bourke

Depression in the housing from their six-year low of narket is beginning to show £65m in November to £203m. market is beginning to show up dramatically in the build. The improvement was de-Lending continues to decline and stood at only £800m for December compared with ation, who pointed out that well over £1,000m a month December was usually a poor during the summer. Net new month for societies because commitments slipped even of Christmas spending.

The December revival does

Whether this is due to lack

the banks may be advancing one in three of all bome loans.

But if demand does pick up, the building societies traditionally rise at the start could find themselves in a tricky position. Net receipts traditionally rise at the start of the year when interest is credited to investors' for December were better than expected, struggling up

of demand from homebuyers figures for the year are poor. is difficult to estimate, since the banks have now moved in and taken a sizable slice of decline since 1978, which was not obscure the fact that the and taken a sizable slice of decline since 1978, which was the home loans market. Recent estimates suggest that the banks may be advancing The societies are predict-

The December revival does

Martin the Newsagent plc \dots

RESULTS AT A GLANCE - in £m

Calaa	1981	1980
Sales	107.4	95.8
Profit before tax	3.8	3.2
Earnings per ordinary share	48.2p	42.8p
Net dividends per ordinary sha	re 10.5 p	9:35p

- * record figures achieved with sales up 12% and pre-tax profits up 18%
- * final dividend increased by 12.3%
- * retail trading area is expected to increase by 35,000 sq.ft. in 1982
- * first ten weeks show sales up 12%.

Copies of the Annual Report and Annual Review Document are available from The Secretary, Martin the Newsagent plc, Martin House, Ashwells Road, Brentwood, Essex CM15 9SF.

Ronson raises bid for Heron Motor

By Margareta Pagano Heron Corporation, Mr Gerald Ronson's petrol stations to real estate empire, yesterday came a step closer to taking its publicly quoted Heron Motor Group back into private control, by raising its offer for the shares it does not own to 34p a share.

Heron, in turn a subsidiary of Mr Ronson's Heron International, which now holds interests in natural resources and savings banks in the United States, is offering £4m for the outstanding 29.5 per cent stake held by private investors in HMG. Mr Ronson's first offer of 28p a share against net assets per son's first offer of 28p a share against net assets per share of 50p, was rejected just before Christmas. Commenting on the increased offer, Mr Ronson said: "County Bank, acting for the independent shareholders, managed to get more out of me than I intended." The terms of the scheme of arrangement have won sunarrangement have won sup-port from County Bank and the independent directors and is expected to go

With the tidying up operation came news of changes in Heron's structure and management structure after the reorganizations, of the past year. Mr Harry Cressman, once chairman of BSG International, who was brought in as managing director for 18 months to steer the rationalization, has resigned, and will be replaced by Mr John Turner.

The new group, Heron Trading, will comprise HMG and Heron Suzuki, and the chairman will be Mr Peter Agg, who replaces Mr Ronson.
Results from HMG, due

any day now, are expected to show an improvement after last year's loss. HMG, he adds, will continue with BL dealerships, but hopes also to bring in new franchises. Mr Ronson says that after the consolidation, Heron Corporation, which employs 5,000 people in the UK, is now prepared to spend between £50m and £100m on buying a UK company with a Stock Exchange listing. Heron, in a strong liquid position with £19m on deposit, recently raised £75m through a syndicated un-secured loan, and in Decem-ber secured a further \$50m. | sary if the ICCO is to meet interest payments on the loan.

Casino acquisitions lift Reo Stakis

Casinos and the growth in the off-sales drinks market have been responsible for a profits increase at Glasgow-based Reo Stakis Organisation, whose other main. have been responsible for a profits increase at Glasgow-based Reo Stakis Organis-ation, whose other main interest is hotels.

The pretax profit for the year to September was up from £3.9m to £4.6m. Sales were also up from £63m to £77.8m, with the biggest percentage increase coming from casinos where turnover rose from £7.7m to £13.5m.

Mr John Loughray manag-

Banks may

Brazilian banks are pre-pared to lend the Inter-national Cocoa Organisation between \$70m (£37m) and \$120m (£64m) to support the world cocoa price. The move is unprecedented in the history of the ICCO and are

history of the ICCO and an unusual instance of primary producers helping each other.

But the loan will be on commercial terms. Market sources believe that the three banks, led by the state-owned Banco do Brasil, want to charge 1½ per cent over the London interbank offered

rate, with a one-year grace period for interest payments, for a four-year loan.

The money is needed by the ICCO's buffer-stock fund, which has been steadily buying to offset a projected

surplus of production over demand, The buffer stock

had about \$175m, enough to buy some 90,000 tonnes

The size of the Brazilian loan may depend on the willingness of the ICCO is increase the levy it charges on cocoa producers.

The present levy of one cent a pound is expected to raise \$13.2m during the 1981-82 season. The banks are

An increase may be necessary if the ICCO is to meet

cents a pound.

London Shop merger with

Beaumont gets go-ahead

Bradman, chairman of the had conceded that they

lend to

Rooms in South Kensington, London.

Mr John Loughray, managing director, said the ining director in the five Scotland and the North of
contribution from the five England where most of the
casinos bought from Ladbroke's last year for £4.4m. located. Wines and spirits

sales rose from £26m to £32m. An increased dividend of 1.64p gross has been declared. This makes a total dividend for the year of 2.28p gross compared with 2p gross

Asset leasing also grew substantially in the year from £355,000 to £1.07m. Income from leasing has been set off against other

interest costs. The company says it expects to see improvements in 1982. Profits in the first quarter are ahead of last year, partly as a result of improvements in hotel bookings in the autumn.

Deadline nears for North Kalgurli bid

British shareholders who bitterly-contested offer agree together hold up to 40 per that the North Kalgurli price cent of North Kalgurli Mines, the Australian gold mining company, for which Metals Exploration, another Australian mining company is mak been slow to develop the Exploration, another Australin mining company, is making a partial bid, have only until Monday to decide whether to accept the Metalsex offer, which is being strongly opposed by the North Kalgurli board.

Metalsex is offering A\$1.50 (89p) a share for each fullypaid share, to raise its stake from 20 per cent to 35 per cent. But Mr Ken Fletcher, the Metalsex managing director, admits that his company cannot afford to

company cannot afford to pay more.

Despite the offer, North
Kalgurli shares stood at 112 cents in London yesterday. Market sources expect that without the bid the price would be between 75 and 90 cents. Both sides to the

Metalsex has charged that the North Kalgurli board has been slow to develop the potential of its Fimiston gold mine along Kalgoorlie's famous Golden Mile. Mr Fletcher also claims that North Kalgurli has spent money — for example on its indirect stake in the Honey-moon uranium project — which would have been better deployed at Fimiston.
But in the rejection docu-

ment sent to shareholders on Tuesday, North Kalgurli argues that the shortage of skilled manpower has prevented if from reaching milling capacity of 350,000 tonnes of ore a year. Mr Fletcher expects mill throughput in the current financial year to be 100,000

Stock markets

group has made efforts to

catch up in recent days.

Yesterday, the price closed 9p up at 160p, making a 12p rise so far this week. This has led to renewed speculation of a possible bid from the German group Raper which has been served.

group Bayer, which has been backed by shrewd buying

wanted, climbing 4p to 93p after the news that Sir Hector Laing had resigned from Allied-Lyons over a

conflict of interests resulting

from Allied's drive into the food market. Allied have for some time been tipped to bid for Huntley and last month bought just under 5 per cent of the shares.

Latest results

27a(19.8a)

-(-) -(-) 3.93(4.97)

6.45(5.5)

4.02(1.98) 0.35(1.24) 0.038(0.09) 0.019a(0.083a) 0.58(0.28)

Dividends in this table are shown net of tax on pence per share. Elsewhere in Business News dividends are shown on a gross basis. To establish gross multiply the net dividend by 1.428. Profits are shown pretax and earnings are net. a=Loss. b=Adjusted.

0.87(0.68) 0.25(0.39) 1.73(1.5)

Huntley & Palmer

from the Continent

Mothercare holders opt for Conran cash offer

By Philip Robinson

Mothercare shareholders Mothercare shareholders have apparently been rushing to take the cash offered by Mr Terence Couran's Habitat group in its £117m reverse takeover of the mother and baby clothes chain rather than accept his shares.

If all those who had applied for cash were paid in full, Habitat would have had to find £64.4m instead of the \$40.2m it originally offered.

£40.2m it originally offered. Instead, its merchant bank advisers, Morgan Grenfell, are scaling down the number of shares eligible under the limited cash offer. Originally, Morgan said that it would be prepared to pay 125p free of all expenses for a limited 32.2m shares. Applications for cash came in for 51.5m

Now, instead of those applying for cash getting half what they requested, they will get 22.3 per cent of their entitlement.

Mr Conran is to ask his shareholders for formal approval for the Mothercare deal today. Firm opposition is un-likely, although the company

expects questions from small shareholders who have seen the value of their Habitat shares fall from 140p to 105p Since the bid was announced.

The meeting is the last burdle for Mr Conran's plan for a major retailing group. He already controls it with acceptances for his offer being taken by holders of 86 per cent of Mothercare shares. With those in hand, Habitat now controls 89 per

cent of the equity.

The figures include those large institutional holders whose acceptance followed a meeting with Mr Conran at which he is believed to have applying the future structure. explained the future struc-ture of the enlarged group in



Mr and Mrs Robert Baird working on their new executive search magazine.

Keeping headhunters in touch

Mr Robert Baird was on a very solitary occupation. holiday in California when he Few headhunters knew or heard that the company for were known by their comwhich he worked had been petitors; and even their put into liquidation. Since he had been headhunted to the post of financial controller only a year before, the news came as a considerable blow. When he had picked himself up he went out to contact all the executive search organi-zations he could find, first in the United States and later in

the United Kingdom.
As a result of that exercise he and his wife set up in business for themselves, as publishers. Their second publishing venture — a magazine for the executive search industry, which carries details of more than 50 jobs at salaries of £15,000 a year or more in its first issue — will be launched next

What Mr Baird discovered, when he went to see the second headhunters, was that this is shortly.

some difficulty in identifying them. In America it was at least possible to obtain directory of executive search ing them-consultants. In Britain, no It also such publication existed.

So the Bairds set out to

So the Bairds set out to compile one, supporting themselves out of what redundancy money there was, and Mrs Baird's earnings from some part-time lecturing. The result was the Executive Grapevine, a directory listing the names, addresses, affiliations and specialities of some 170 executive search organizations in the UK. The first edition, which was published edition, which was published in November 1980, has sold 1,000 copies at £25 a time; a second edition is due out

became obvious to the Bairds

It also became obvious that, although they rarely advertise in the national press and might not be prepared to do so openly even in a specialist publi-cation — after all, the essence of headhunting lies in the fact that the head-hunter should know exactly where to look — some executive search organizations might be glad of the opportunity to publicize their more difficult or testing assignments.

The publication which they plan to launch next week -which will probably be issued

Shares of Ocean Transport & Trading leapt 9p to 117p after hours last night, amid

likely to ask at an ICCO meeting on January 25 for the levy to be two or three rumours that it was about to sell its 58 per cent stake in the Straits Steamship Co (Singapore).

Meanwhile P&OD rose 6p to 139p amid continuing rumours of a possible Far

Eastern bid.
Elsewhere, bid situations continued to dominate interest in a market where the first objective was to beat the national train drivers' strike. Nevertheless, attendance was reported as near normal and Shareholders in London ing to consider the merger Shop Property Trust have with Beaumont. even turnover was able to register a slight increase. given their approval to the proposed merger with the proposed merger with the group's sister company, which advises Rosehaugh, Beaumont Properties, despite claimed that in discussions Despite the possibility of a bought 8 per cent of the miners' strike adding to the shares despite news of a present situation, the FT possible loss expected strong opposition from a after Rosehaugh's first offer number of shareholders. of 135p per share, the These included Mr Godfrey directors of London Shop

ing 2.7 up at 527.3. Interest in gilts remained at a low ebb, although the thin conditions produced rises of up to £4 across the

Index was undeterred, clos-

former tea plantation group would be unable to place Rosehaugh, which is the Rosehaugh's entire 21.4 per largest shareholder in the cent stake in the market at board. RTZ continued to make good progress in its bid for Thos W Ward which re-But on behalf of London to takeover London Shop, but Shop, Mr John Bushell of J. its latest offer, worth 150p Henry Shroder Wage, the Henry Shroder Wagg, the group's financial advisers, said that it had not been able mained unchanged at 231p. Brokers Hoare Govett were reported to have picked up between 2m and 3m extra shares yesterday, taking RTZ's stake to almost 38 per cent of the equity, including

3.14 per cent acceptances already received.

However, Mr Peter Frost, chairman of Ward, still regards the bid as inadequate and will be writing to shareholders shortly to tell them why he thinks they should reject the bid.
In chemicals, the doubled profits from Allied Colloids

Allied Colloids (1)
Boulton & Paul (1)
Centreway Ltd (1)
Centreway Trust (1)
Cosalt (F)
Gresham Inv. (1)
Industrial Precision (M & G Dual Tst. (F)
Racal (1)

Racal (I) Reo Stakis (F)

9.14(1.8) 26.7*b*(33.8)

Rumours help shiping sector In stores, Habitat slumped 3p to 105p, after its bid for Mothercare, unchanged at 158p, went unconditional came as a pleasent suprise and added 13p to the price at 155p. Hestair was also a bright market afer directors attended a lunch in the City upon receiving 89 per cent of the shares and clearance from the Monopolies Comon Wednesday in a confident mood which was reflected in the share price, 6p dearer at 37p. Another bright spot was

mission.

Wolverhampton Laundry
hardened 2p to 55p as Mr
Owen Oyston bought a further
142,000 shares, or 10.97 per
cent, taking his tally to 29.92 Coates Bros, 5p up at 59p Improved figures also added 2p to Reo Stakis at 52p and 6p to Cosalt at 37p.

Berwick Timpo continued per cent. its recent recovery, rising 3pto 39p supported by the news
that Mr Swraj Paul's Caparo
Investments had taken a 5.8
per cent stake. Only last
week Jove Investment Trust electrical

The electrical sector appeared disappointed with the half-time news from Racal Electronics, with profits at the upper end of expectations. The shares rose 2p to 423p and the market expects the group to breach the £100m mark for the year. But Thorn EMI, reporting today, slipped 5p to 433p.

Dealers are now discount-The recent revival in the chemical industry has taken Fisons by surprise, but the

price suggests pretax profits well below par.

bargains). Active stocks yesterday, according to the Exchange Telegraph, were Allied Colloids, Royal Bank of Scotland, P & O D'fd, Racal, Comm Union, Sun Alliance, Phoenix, Eagle Star, Unitech, Barget, Rand Mines, Ransome Hoffman, ICI, Lofs, and Ultramar.

Tradicional

Traditional options saw calls in FNFC on 36p, NCC on 12p and Royal Bank of Scotland on 18½p. Puts were arranged in FNFC at 3p and Royal Bank of Scotland at 16p and a double was com-pleted in Lofs at 91/2p.

26/3

--3/3 13/2

2/3 15/2 14/4

-(-) 2.3*b*(3.5)

1.2(1.1) 1.1(1)

-(2.73) -(-) -(5)

—(—) 21.1(18.3)

-(4.13) 1.6(1.4)

New Year ratings battle ends in draw

By Elkan Allan Some 11 million people saw in the New Year with the help of television, according to the audience figures issued by the Broadcasters' Audience Research Board yesterday. About half chose BBC 1 and half ITV, although there was an appreciative switch from ITV's Hogmanay Show to the BBC's Across the Years at the stroke of

midnight. Just under a mil-lion watched BBC 2's Pick of Earlier, however, ITV showed a downturn to profits of £236,000, against £719,000, in the period and the re-frigeration and air-conditionhowever, Dealers are now discounting a possible £40m rights issue, but believe the share price suggests pretax profits tract a relative handful of 6.73m against *Give us a Clue's* 14.34m and a half-Equity turnover on Janua-to 12 was £107.287m (12,301 harmains) Active stocks was

viewers, But perhaps the most upsetting success of the week for BBC was Barbara Woodhouse in America in which their discovery was transported by ITV to California and scored the enormous rating — for a documentary — of 13.19m viewers making it the eleventh most popular programme of the week.

Caravan side boosts Cosalt's figures

Cosalt, the Grimsby-based ships' chandlery and caravan maker, managed to push pretax profits to £580,000 in assets of Italstat, founded in the eight-month period to
August, compared with
£289,000 in the last full year.

Much of the increase came
from the caravan division, where the completion of a contract by Cosalt Adda Systems for earthquake relief in Algeria last year accounted for £4.8m out of the total £7.3m of exports. Profits from caravans, which have lost most traditional export markets, were £769,000 against £714,000. The ships' chandlery division showed a downturn to profits

Total sales were £26.8m about 95.78 per cent. against £33.8m.

Birmid Qualcast

Birmid Qualest (Foundries) has taken a controlling interest in Alkast (North Devon), the Barnstaple-based precision light-alloy casting foundry, for an undisclosed

Birmid Qualcast is one of the largest manufactures of light-alloy castings in Europe and a market leader in precision casting. It sees Alkast as a natural addition to the group's West Midland foundries, satisfying the market for small-to-medium quantity orders.

Italstat boost

Italstat International, the Luxembourg-based holding company, controlled by Italstat (the IRI holding for

1979, aims at boosting the means of the company both to take a better account of the credit and interest given by the international banking system to the IRI-Italstat concerns, Italy's most important group of civil contractors and consulting engineers, and to comply with Luxembourg rules.

Jenks-Elliott

With its offer for the Elliott Group of Peter-borough now closed, Jenks and Cattell has now received acceptances from the holders of 12.53m Elliott ordinary shares, which is about 95 per cent. Jenks's total holding of Elliott's ordinaries is

Allied Colloids

Allied Colloids' sales for the half-year to Oct. 2 last rose by 39 per cent to £27.35m, compared with last year, with pretax profits more than doubling to £4.02m, against £1.98m. In fact, the latest profit almost equals the £4.04m pretax profit for the whole of the year to March 28, 1981.

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Cement-Roadstone

Cement-Roadstone Holdings, Ireland's biggest indus-trial company with expanding interests overseas, reports that its United States subsidiaries, Amcor Inc and Concrete Conduit, recently signed a contract with the United States Mountain States Mountain States Telephone and Tele-Italstat (the IRI holding for graph Company (a Bell Telethe construction and civil phone subsidiary) worth engineering sector), has in-almost \$10m (about £5.3m).

Business appointments

Federated Land chairman named

Mr Arthur C. Richards has been made a non-executive director and has been elected chairman of Federated Land. He chairman of Federateo Land. ne is chief executive of United Dominions Trust, a director of Trustee Savings Banks (Holdings) and a non-executive director of Blackwood Hodge. Mr James H. P. Meyer has resigned as chairman and will cease to be discrete on January 31 in James H. P. Meyer has resigned as chairman and will cease to be a director on January 31, in order to pursue his private business interests abroad. Mr Cyril N. Smellie, who retired last April, as the senior partner of Moore, Stephens & Co, the company's auditors, has joined the board as a non-executive director. Mr Peter J. H. Meyer, has resumed executive responsibilities, which he relinquished last May, and has been appointed managing director. Mr Trevor Slater, an executive director, has been appointed deputy managing director.

Mr G. W. Searle, chairman of London & Scottish Marine Oil (Lasmo), has become chairman of the Association of British Independent Oil Exploration Companies (Brindex). Mr J. T. Leonard, chairman of Carless, Capel & Leonard, has been appointed vice-chairman.

Mr Jonathan Sieff has been appointed chairman of the Cooper Group.

Mr A. D. Angel has been

Mr Jonathan Sieff has been appointed chairman of the Cooper Group.

Mr A. D. Angel has been named as chairman of Merck Sharp & Dohme; he was formerly managing director.

Mr John Collier has been appointed director of industrial relations for News International. Mr Bill Gillespie has been appointed deputy managing director of Times Newspapers. Both appointments will become effective from January 25.

July 1. His place in the UK will be taken by Mr Jeffrey Bowman on the same date.
Mr Geoffrey W. Cross has been appointed financial director of London and Liverpool Trust.
Mr Eric Meldrum has been made chairman of Barton Conduits, Walsall. Mr John Moore has been appointed chairman of both Barton Abrasives, Wolverhampton, and Barton Aluminium Foundries, Birmingham. Both Mr Meldrum and Mr Moore are directors of Barton Group and their appointments follow the retirement of Mr Graham Shelldon from the group board.

retirement of Mr Graham Sheldon from the group board.
Mr Derek W. Allen, assistant general manager (investments) with Guardian Royal Exchange Assurance, has become deputy general manager. Mr David F. Cooper, a senior investment manager, is to be an assistant general manager in GRE's investment and finance division and Mr John M. R. Evans will be an assistant general manager on

and Mr John M. R. Evans will be an assistant general manager on the managing director's staff.

Mr Michael H. Marx has been appointed financial director of Heron Corporation. Mr Alan I. Goldman who has been financial director since 1974, will now be assuming wider responsibilities particultry directed to the expansion of the group's interests in the UK and overseas. Mr Goldman remains a director of Heron Corporation and financial director of Heron International, the group's holding company.

Mr Thomas M. Sands is to be the managing director of Elizabeth Arden, UK.

Mr Michael Coates, at present UK senior partner, becomes chairman of Price Waterhouse Worldwide on July 1. His place in the UK will be taken by Mr Jeffrey Rowman on the came date.

Mr Dennis Drew has been appointed deputy chairman of Price for Packaging and the Environment, in succession to Mr Douald Raine. Mr Drew has just retired as chairman of Bacofoll and has been a main-board has and has been a main-board director of British Aluminium since 1971.

Mr W. Ford has been appointed a director of Brown & Tawse. Mr E. Hartley has been made a director of Brown & Tawse

Mr Nigel Keen has been appointed an executive director of European Banking Company. Mr Keen joined the bank as its chief accountant in 1974 and was made an assistant director in

company secretary of Oil and Associated Investment Trust. Mr K. W. Cunningham has resigned from the board and also resigned

as company secretary.

as company secretary.

Mr Julian Traves, technical mangager of Carrs Paints, is to be the chairman of the newly-formed External Wall Insulation Association.

Mr A. P. N. Lafont has been made a director of Morgan Grenfell International. Mr G. W. Mour and Mr A. M. Wheatley become senior assistant directors of Morgan Grenfell & Co and Messrs P. Curry, M. J. Hodges, R. M. Mashneki, A. V. P. Stit and A. J. P. Sykes become assistant directors of Morgan Grenfell & Co.

Mr John Walker has been

Mr John Walker has been appointed a director of Leopold Walford Holdings. He was previously managing director of Leopold Walford (Zambia).

per London Shop share, was dependent on the board of London Shop recommending to obtain any assurance that its acceptance and not pro-

Rosehaugh has attempted

group, holding 21.4 per cent. that price.

New York, Jan 13. — Stocks, paced by blue-chip issues, were heading higher early today in a

Wall St

thus far in 1982. Trading was The Dow Jones industrial

Fot Nat Boston
Pol Penn Corp
Ford
GAF Corp
Gen Dynamics
Gen Becuric
Gen Foods
Gen Hotors
Gen Hotors Armen Steet Amren Ashland Oli Allotte Richfiel Attour Richnell Aven Products Bankers Tst NY Bank of America Bank of NY Beatrico Foods Bendus Bethichem Steel Boeing Bothe Cascade lorden Jorg Warner Brittol Myers in Pacific Corp
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US Saeei
Utd Technol
Wachovia
Warner Lambert
Weils Pargo
Westughse Elec
Weyerhauser
Whichool
Woolworth
Xerox Corp
Zenlih Marco Marathon Oli Marine Midian Martin Mariet McDonnell Columbia Gas
Constitution En
Committe Edisa
Coms Edison
Cons Power
Continental Gri
Control Data
Cortinental Gri
Control Data
Cracker Int
Crocker Int
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Abritish Trace
Abritish Alumin
Alcom Alumin
Alcom Steel
Bell Telophone
Cominco
Com. Sathura
Gail Of Can
Ray-be/Sid Can
Rudson, Bay Min
Rudson, Bay Min
Rudson, Bay Oil
Imasco
Limperial Off
Ini Pipe
Hass.-Ferran
Royal Trust
Espain
Thomson N 'A'
Walker Hiram
WCT

Rosehaugh wanted to do ceeding with yesterday's business in this respect. 852.55 around 11 am. The early improvement was not wide-spread, however. Advances held a slim 562-404 lead over declines among the 1,396 issues crossing

the tape. First-hour turnover First-hour turnover of 10,920,000 shares was down from the 14,140,000 traded during the same period on Tuesday.

New York, Jan 12. — The stock market closed lower for the second straight day amid concern about the outlook for interest

	rates				
	Jah 12	Jan 11		Jab 12	Jan 11
_	437	4370	Proctor Gamble Pub Ser El & Gas	795 ₈ 184 ₈ .	792s 184s
	18	175	Raytheon	35	344
	144	14%	RCA Corp	173	17%
	22% 56%	217 50	Republic Steel Reynolds Ind	241) 441	242 433
	304	30	Reynolds Metal	-334	27,
	344	237	Rockwell Int	204	207
-	384	324	Royal Duich Saleways	374 384	32% 261 ₂
Y	304	31	St Regis Paper	291	28%
	20%	214	Santa Fe Ind	18 ¹ 2 21 ¹ 3	18%
	- 5	6	SCM	215	224
C	16%	19	Schlumberger Scott Paper	50% 16%	494 ·
	574 334	37	Seattan	554	25.
	204	20	Scara Roebuck	17	17
	13%	185	Spell Oil	37%	384
	流	꿦	Shell Trans Signal Co	28 34,	394 244
'le	777	779	Singer	12%	13°
	144	15	Som	164	17
•	245	瓷.	Sth Cal Edison	284	284
	314 154	12	Southern Pacific	35%	384
	26	28	Sperry Corp	314	324
	20%	314	Sid Qil Califnia	3812	31%
	64	6442	Std Oil Indiana	464	45%
	34 55%	56	Std Oil Ohlo Sterling Drug	3î 211,	37% 21%
	22	27	Stevens J. P.	144	15"
	5770	344	Sumbere Corp	27%	27%
	134 ₂	8 ² 13 ³	Sun Comp Teledyne	40% 129%	107
	364	32	Tenneco	201	13%
	28	300	Tezaco	314	32
	494	494	Texas East Corp	49	50%
	35% 20%	200	Texas Insi Texas Utilities	73 195 ₈	742
	345	334	Textron	20%	氯
_	15%	16	TWA	14%	144
	334	334	Travelers Corp	43% 51%	#持
	164	63 ¹ 2	UAL Inc	154	165
	23%	25	Union Carbide	47%	474
	145	14%	Union Oil Calif	315	37

Commodities 2850. Seles: 1. 300 ionnes.
TIN was quiedly siready. Afternoon.
Standard cash. 28.020-40 a tonne; three months. 28.090-8.110. Seles.
880 tonnes. High grade. rash 28.620-40; three months. 28.090-8.110. Seles.
Standard cash. 28.580-8.600; three months. 28.090-8.110. Seles.
Standard cash. 28.580-8.600; three months. 28.070-75. Settlement.
28.000. Seles. 30.000; Settlement.
28.000. Seles. 30.000; Settlement.
28.000. Seles. 30.1 tonnes. Singapore tin ex-works. \$M55.30 a picul. In ex-works, \$M55 30 a picul.

LEAD was aleadler. — Afternoon. —
Cash, £323.23 per ionne: ihree
months, £325.25, \$0, sales, £1.75
tonnee. Morning. — Cash, £31515.50; three months, £237-27.50.
Settlement, £315 50. Sales, 4,500
tonnes.

ZINC was irregular. — Afternoon. —
Cash, £405.30, \$405.00 per tonne,
2400 ionnes, Morning,
4400 ionnes, Morning,
450 ionnes, Morning,
6105.50. Settlement, £403.25. \$ales,
61,175 tonnes. LATINUM was at £195.20-\$365.50) a troy dunce. (\$365.50) a troy dunce.

SILVER was quietly steadler.—
Builton market (fixing levels).—Spot
421.800 per frey owner United States
ceats equivalent.
months 457.50p (819.10c); sta
months 457.50p (819.10c); sta
months 457.50p (880c); one year
485.25p (908.90c). London Metal
Exchange.—Afternoon.—Cash 425206; three months 440.5-41.0p. Sales
I lots of 10.000 froy ounces each;
Morning.—Cash. 420-21p; three
Morning.—Cash. 420-21p; three

70 lots.

WOOL.—MZ Creschrauds No 2
contract (cents per kilo): Jan 364568: March 368-571: May 375-381.
Aug 386-391: Oct 391-393: Dec 395598: Jan 400-403. March 405-410:
May 410-420. Satos; 105 lots.
GRAIN (The Ballic).—WHEAT.—
Canadian wotern red spring the
quoted. Us dark northern spring No 2.
14 per cent; Feb Ellis March 21 20, 75
Lrans-shipment cossi coast. US hard

English reed fob: Jan £113.5d south coasi.
MAIZE — US/French unquoted. South Africa white unquoted. South Africa white unquoted. South Africa white unquoted. South Africa white under the coast coast. All cife Under the Coast Coa | Color | Colo

MEAT COMMISSION: Averagee fai-slock prices at representative markets on Jan 15: GB Cattle 108 14p per kg lw (+7:10): UK Sheep 202.97p per kg est dew (+1379): GB Plas 30.00p per (+2.59). Scatland: Cattle nos up 3.4 per cent. ave. price 106.20p (+2.42); Sheep nos down 18.0 per cent. ave. price 202.85p (+6.19) POTATUES; (Gaffa).—Feb 595; April £116.30; Nov £67.80. Sales 274 lots of tonnes each.

Geo Bassett sale Geo. Bassett Holdings, the iquorice All-Sorts makers, has sold A. A. Hales, the hobby kits and toy distributor, for £1.2m. The deal, part of Bassetr's policy of shedding non-confectionery inter-

إ هكذا من الأصل

BY THE FINANCIAL EDITOR

Building societies used as banks

Building societies had a rough time in President Reagan's hard-line stance.

1981 with net receipts falling by £342m There are clearly great differences to £3,474m — the first drop since 1978, which followed a record year in 1977. Clearly the competition from National Savings and the banks is beginning to bite but there is little evidence of any agreement between the societies on what form retaliation should take — it

And although the societies cheerfully reported lending at record levels, the figures overall should be ringing alarm bells among the board roon decision-

Gross receipts for 1981 at £26,441 million were the highest yet, a rise of 19 per cent on the previous year's total of £22,183 million. Withdrawals, however, increased even faster, up 25 per cent at £22,967 million, precipitating the drop of nearly £350 million in net receipts.

This tendency of building society investors to use their accounts increasingly like a bank and the second to the secon

singly like a bank account has worrying

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ourse of the his operation a us to the Bairds ers had strong wiews on the the future

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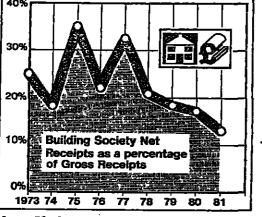
for a long of the control of the con

dstone

A Time

Net receipts as a percentage of the industry's gross receiptshave been declining rapidly since 1977 when they hit nearly 33 per cent. Since then they have slid alarmingly to the 1981 figure of only 13 per cent.

This faster turnover of depositors' funds inevitably pushes up the societies' expenses, and margins at some societies must be dangerously



low. If the average percentage of net receipts to gross receipts is only 13 per cent, some societies must, by definition, be turning over their deposits faster than the average and have an even lower percentage of retained deposits.

One answer for the societies is to follow Nationwide's lead and venture into the local authority bond markets for wholesale money. Nationwide believes the cost of the £30 million it raised last year through its negotiable bond issue was somewhere between the cost of ordinary account money and term shares.

Since most societies are having to pay at least one per cent over the recommended ordinary share rate of 9.75 per cent on some 70 per cent of new deposits, wholesale money looks relatively cheap.

However, even Nationwide seems reluctant to pursue this route. It has been restricted to raising only £5m a month through the local authority market, and its new chief general manager, Cyril English, is not as keen as his predecessor, Leonard Williams, on raising money in this way.

He appears to have turned his back on other money market options on the grounds that the society would be raising money from its competitors, the banks. It is doubtful whether the banks will suffer the same squeamishness when it comes to persuading erstwhile building society customers, now locked into a bank home loan, to part with their savings.

Polish debt

Divisive tactics

The military Government in Poland has been attempting to drive a wedge between the European and American banks who are owed some \$17,000m. Since Christmas, the Poles have been repaying perhaps \$200m of the \$500m in interest due for 1981, to British, West German and other European banks. But the United States banks, it appears, have not been paid a penny because of

The pitch by Greater London

Council, supported by the

of Commerce and Industry.

is completely accessible, with

a handy international airport.

It would be cheaper to set up

the office in the city which

had several central sites that

could be used." Like London,

Says Saulter: "Manchester

There are clearly great differences of opinion between United States and European banks on the thorny question of signing an agreement to reshedule the \$2.4 billion debt for 1981. These disagreements largely reflect governmental differences.

But the Poles might be backing a loser by trying to split the banks. First, most of the loans have a clause inserted which does not permit favoured treatment for certain banks. So the American banks can exert pressure on their European partners by invoking this.
Second, syndicated loans are led by

an agent bank which in some cases are British. Any repayment of interest to a British or German bank must be shared out pro rata, so any United States banks in that syndicate will receive its share.

Turning Deccato account

It has not taken long for Racal to dispel fears that it would be a slow process putting Decca's house in order. Thanks in part to loss elimination (the sale of the colour television business in particular) and strong growth on the capital good side, Decca's contribution to pre-tax profits in the first half was £5.27m against losses of £5.21m last

Marine radar's losses have been reduced from £6.6m for the whole of the previous year to just over £2m and with further rationalization across the business still to come. Decca should be contributing upwards of £12m for the year, with volume on the capital goods side likely to be up by a half for the

Within the 45 per cent jump in pre-tax profits to a record £38.4m, the only division blotting the copybook remains data communications where the overreaction to increased competition has knocked margins well below their historic 26 per cent level, leading to what Racal — in its usual tacitum manner - calls a "substantial" hole in profits. Corrective action has been taken which should lead to a modest second-half improvement.

Hidden reserves.

Lords' committee favours disclosure

The case against banks keeping hidden reserves has been greatly strengthened by the House of Lords' committee's examination of the proposed EEC directive on banks' accounts. The directive as it stood would have allowed all-banks to keep a form of undisclosed reserve through the writing-down of 5 per cent.

For full-disclosure banks which this world than to travel took advantage of this, it would of using out of date maps. Yet course have been a huge step back- that is what the Chancellor wards, though for those most secret of risks doing as he prepares extra money all, Schedule 8 banks; such as the accepting houses, the directive would has half moved towards customers. all, Schedule 8 banks; such as the accepting houses, the directive would have been a small advance in disclosure

As it is the Lords committee has come down firmly against banks being allowed to keep hidden reserves at all. The committee was unconvinced at the old argument adduced by the banks that depositors' confidence might suf-fer in some circumstances were the true position on capital and reserves known. The Jenkins Committee in 1962 accepted this on the basis that the risk of a loss of confidence, however small, outweighed the advantages of disclosure. But the Lords committee feels that enough has changed in the last 20 years to swing the balance.

It is understandable that the users of accounts should want the Schedule 8 banks to move to full disclosure and there are few surprises among those who gave evidence against hidden reserves to the committee. But what makes the committee's recommendations so credible is that the committee itself comprises several eminent bankers including a former govenor, former deputy-govenor and an adviser to the Bank of England.

Trade relations between major industrial nations will be discussed in Florida this week

Is it too late to halt the slide to protectionism?

Economic relations between the United States, the European Community and Japan are worse today than at any time since the war. The three-cornered partnership which has been the mainstay of the international open of the international open

trade system for 30 years is under severe strain.
While much of the world faces its third year of recession and lengthening dole queues, the Japanese export machine grinds on, pouring out cars, cameras, video cassette recor-ders, numerically-controlled machine tools and much more. Like the sorcerer's apprentice, the Japanese Government looks on helplessly, unable to stop what it has started. And Japan's trade surpluses with the West go on piling up inexorably.

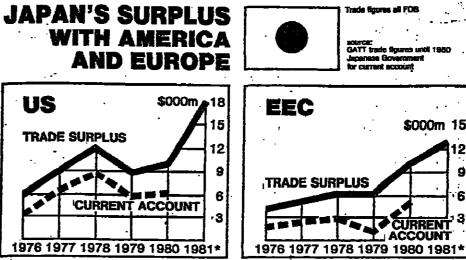
Nobody expects that the meeting tomorrow and on

Saturday at Key Biscayne, Florida, between top trade representatives of the US, the EEC and Japan, will produce an instant solution to these problems. But neither can there be much doubt that unless the situation is brought under con-trol soon, the dangers of sliding back into protectionism are high. Indeed, the only question

that the pessimists are debating is whether America or the EEC will be first to impose formal quotas on imports from Japan. If one of the two big Western powers were to take such action, the other would quickly follow.

Some trade officials believe that the crunch could come this spring as the recession in the United States takes its toll. In some areas of trade most notably cars - Japanese exports to America and the Community are already subject to "voluntary" subject to "voluntary" restraint agreements, Formal quotas on imports from quotas on imports from been somewhere between Japan would represent a \$13,000m and \$14,000m, significant escalation of trade compared with \$10,000m in Some estimates suggest

per cent of American imports shortfall with the West on its from Japan are subject to some type of voluntary agreement or other kinds of informal understanding to check their growth. The United States Congress is preparing a new set of certain to continue whatever proposals giving the White House unprecedented auth—



ority to impose quotas on imports, retaliate against countries which restrict their imports of American products, and set new countervailing duties to protect American companies from what is deemed to be unfair

foreign competition.

Mr David MacDonald,
deputy United States trade
representative recently described his country's trade relations with Japan as having reached a dangerous point. For the EEC, Mr Wilhelm Haferkamp, Brussels Commissioner for External Relations, has warned that the Community has need that the Community h

Some estimates suggest that Japan's surplus with the United States last year was close to \$18,000m, compared with \$10,000m in 1980; and it is likely to rise further this

year.
The surplus with the EEC last year is thought to have

These figures are offset to that already as much as 70 some extent by Japan's per cent of American imports shortfall with the West on its

The Organization for Economic Cooperation and Development recently predicted that Japan's surplus with the rest of the world would rise the world would rise the world would rise the world would rise the world would be the world would be the world would be the world worl Haferkamp and Sir Roy Denman, Director General External Relations. Leading

tance to attend a meeting such as that planned in Florida for fear that the West would gang up on Japan. Two previous meetings of this kind have been arranged, but Japanese officials have declined to attend at the last moment. The idea for such a meeting was put forward at last summer's Ottawa economic summit between the big industrial nations.

The discussions are intended to be informal. Japan tended to be informal. Japan has only agreed to attend on the strict understanding that the problems are discussed at a general level and exclude any consideration of specific bilateral difficulties. The meeting was originally billed as a trilateral one, but has been widened to include There are many indications that the Reagan Administration views these latter more seriously than those with Japan. Robert Hormats warned recently that if economic difficulties between America and the Community were been widened to include that the Reagan Administration views these latter that hese measures will do little to reduce the surplus. "We are making the concessions because these are demanded of us by Europe ad the United States", a senior MITI official admits.

It is difficult to see how the Florida talks can do been widened to include permitted to fester they Canada.

Japan will be represented areas of their relationship. by Mr Shintaro Abe, Minister Restrictions on trade were Canada.

Japan will be represented areas of their relationship. by Mr Shintaro Abe, Minister of International Trade and inviting retaliation, thrust. Industry, and the EEC by Mr and counter-thrust. This

by the Reagan Adminis-tration was illustrated last month when a posse of Cabinet Ministers headed by \$000m 15

Cabinet Ministers headed by Secretary of State, Mr Alexander Haig, descended on the Berlaymont for discussions with Brussels Commission President Gaston Thorn and other top Community officials,

America is anxious that the filing of the suits against European steel makers should not sour the talks at Florida, and that this issue should not be linked to others. Its chief goal at the talks appears to be to persuade its parmers of the dangers.

could have poisonous effects on international politics, on

Orderly co-operative relations

among the major nations, and on American-European

military security, he said.

The degree of concern felt

dangers.
While it is not the intention that specific bilateral issues should be tackled at the main talks, they will very probably be discussed on the sidelings.

by nearly two-thirds this year, to a massive \$35,000m (on a balance of payments basis).

Many Japanese Government officials are privately resigned to seeing new controls slapped on their trade with Europe and America.

Mr William Brock, the talks, they will very probably be discussed on the sidelines. Agriculture and export credit subsidies are, together with su

erials to cut its surplus. It is likely to promise further steps to liberalize domestic markets. In addition, it will tell other participants at Florida that it is willing to provide technological and monetary assistance to help revitalize the West's flagging

porters have served to under-score the difficulties now But Japanese officils in the Ministry of Trade and Industry admit that htese measures

> the Florida talks can do anything about that. Reporters: Bailey Morris (Washington), Peter Norman (Brussels), Peter Hazelhurst

Economic notebook

Avoiding the interest rate trap

key role in determining interest rates. Yet at the same time he is insisting on the domestic goal of cutting back public borrowing as a way of bringing interest rates down.

Lyc..

Supporters of the need to cut to support the suggestion that the Budget deficit itself went straight into increasing the money supply. Only that part of it which cannot be financed by selling Govern-This belief that a low

borrowing requirement is the source of low interest rates at home is, in any case, of only limited validity, even if the Government is solely concerned with domestic money supply. It loses all in this way than it has needed to become to become to become a target of the cover its deficit. rate becomes a target of government policy. So if the Chancellor promises that a tough Budget opens the way to lower interest rates he will be making a promise he cannot deliver, just as he could not deliver on the same promise last year.

If the exchange rate is allowed to float, the Government uses interest rates to try to control the money supply. The total growth in the amount of money in

Nothing is more dangerous in the world than to travel the extra money which has to deficit as the only option that is what the Chancellor deficit and the interest rates.

In ment with at least a theoretical defence for its views.

It is true that for any given money supply target, a lower extra money printed by the banks to lend to their private

> Even the most ardent financed by selling Govern-ment long-dated stocks is actually an addition to the money supply.
>
> In many periods over the past decade, the Government

When this overfunding occurs, the Government's contribution to the money

supply is actually negative.
It is a simple matter of arithmetic that if the Government wants to reduce bor-rowing from the banks it can either cut its deficit or long periods actu-finance it by selling more monetary growth.

interest which it pays (unless But in the it uses unconvential instru-domestic Business Diary: Marking time

One obvious flaw in this, as has become very apparent over the past two years, is that the private sector's borrowing is sharply affected by what the public sector does.

If companies have to pay

likely to borrow more from the bank to do so. Thus measures aimed at cutting the public deficit to help hold down the money supply fail to have the desired effect. There is less public borrowing but more private borrow-The same kind of practical

problems occur when the Government raises interest rates. Companies faced with higher interest rate charges just add them on to what increases in interest rates designed to cut the growth of the money supply can for long periods actually boost

iong-dated stock.

These are the practical problems involved in trying more stock is to raise the interest which it pays (unless But in the world where only downsting the stock is to raise the interest which it pays (unless But in the world where only downsting the stock is to raise the practical problems involved in trying to hit a money supply target. considerations those circumstances is made ments, like index-linked apply they leave the Govern-

John Heddle, the Tory MP for Litchfield and Tamworth,

tells Business Diary of a

nasty little trap in the Hire Purchase Act 1964 which, he says, could lead to many

from a firm which had leased

the vehicle from a finance

company and then went bankrupt so losing him both

to bring before Parliament a

private member's Bill to amend the Act, arguing that vehicle leasing was almost unheard of in 1964 but

Brothers thought it had a

Next week Heddle will try

the car and the cash.

is now big business.

Car trap

mean that they are low; the attempt to meet the money supply target in late 1980 pushed British interest rates well above world levels. Nor does it mean that the

are also increasingly serious

questions to be answered about America's trade re-

lations with both the Comm-unity and Canada. The anti-dumping lawsuits being taken

out by American companies

against European steel ex-

developing in . Transatlantic

There are many indications

relative reduction in interest rates is worth the price. There is, however, a respectable academic argument for linking interest rates and public borrowing. But once the exchange rate is intro-duced as a target, the whole structure goes out of the window.

Because Britain has no exchange controls, any government wanting to keep the exchange rate stable has abandoned domestic control of its interest rates. interest rates rise in New York money will flow there

and the pound will fall against the dollar. The only way to stop that happening is to raise interest rates in That is just what the authorities did last Autumn and that is what they would

be forced to do again. So when advocates of a tough Budget say that industry would prefer a lower borrowing requirement and lower interest rates they have failed to adjust to the new world.

If interest rates are high on Wall Street, and there are

few who are bullish over the year ahead, they will have to be high here too. In that case Purchase Act 1964 which, he the economy would have says, could lead to many motorists having their cars and would get no lower a constituent of Heddle's There are only two events bought in good faith £2,750, which could give validity to worth of secondhand Ford

in the United States. In those money supply target, a lower circumstances the British government deficit means Government might find itself forced to keep interest rates forced to keep interest rates high. than they otherwise would have been. That does not The second is if an expan-

the Government's case. One

sionary Budget started to get the economy moving so quickly that the balance of payments moved into deficit, provoking a run on the

Where does the balance of risks lie? If interest rates do fall in America and ours have to stay high for domestic reasons we will still have had our expansionary Budget; whereas if the Budget is tough and American interest rates stay high we will have tight fiscal policy and high

interest rates. Surely, as long as there is serious doubt, we ought to go for the policy which gives more assurance of recovery and cut taxes this Spring.

David Blake

Base. Lending Rates

ABN Bank	141/2%
Barclays	141/2%
BCCI	141/2%
Consolidated Crds.	141/4%
C. Hoare & Co	*141/2%
Lloyds Bank	14 /2%
Midland Bank	141/2%
Nat Westminster	141/2%
TSB	141/2%
Williams & Glyn's	141/2%
* 7 day deposit on	

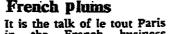
Department of Trade, to get the proposed European Community trade marks office sited in London where the National registry already operates - is due out today. But London is still not having it all its own way. Despite the Trade Department's so far opting for the capital, Manchester is still in there fighting, according to Paul Saulter, chief executive of the Manchester Chamber

jobs the new office would pense create — at least 500, Saulter week. estimates.

crats have been asked to nations. consider. In Britain, Bristol A Communist trade union-and Newcastle-upon-Tyne ist, Georges Valbon is tipped of Saint Gobam is most have been mentioned, but not as a possible chairman of one certain to stay.

Negotiations are still in progress regarding the nationalization of three other very loudly.

will have to confirm Britain's choice soon. Meanwhile Fred pressing for an adjournment France. by other Manchester area MPs in pushing the North-



in the French business world: Who will be getting the plum jobs that will come up when seven industrial groups and 36 banks finally fall under the control of the French State? The government was due to announce the appointments this week but with the constitutional council now not expected to issue its ruling on the legality of the nationalization Manchester has its eye on the before January 18, the sus-

stimates.

The Trade Department own idea of who will get the prears to be backing new jobs. Some appointments London because it thinks the are virtually certain, such as capital is the best competitor that of Jean-Yves Haberer, to put up against other Treasury Director at the possible European homes for finance ministry, as the new the office. Brussels city has head of La Banque de Paris been pushing hard but et des Pays-Bas (Paribas), but Strasbourg and The Hague there could also be some are other sites which Euro- pretty controversial nomi-

of the two steel groups, Reg Eyre, junior minister Sacilor and Usinor, while a former Gaullist Prime Minis- firms have participation at the Department of Trade, senior Unionist from the ter Jacques Chabam Delmas, will have to confirm Britain's radical left CFDT Michel is seen as a possible succhoice soon. Meanwhile Fred Rolant, is being mentioned as cessor to Roux and Georges Silvester, Tory MP for a possible future chairman of Besse, chairman of Cogema, Witherington, Manchester, is Credit Commercial de the industrial subsidiary of pressing for an adjournment France. That would only the French nuclear Authority lebate and is being backed confirm the fears of its (CEA), may take over from the Manchester area existing chairman, Jean-Thomas. existing chairman, Jean-Maxime Leveque, who has been one of the most ardent director at Electricité de the computer group.



First of the many? Jean-Yves Haberer, to be confirmed as head of bankers Paribas.

Ugine Kuhlmann, Jacques Brossolette to be replaced by Mayoux of Sacilor and Claude Etchagaray of Usinor, Jean Deflassieux, a friend of are due to step down, Jean-Pierre Bouyssonnie of Thom-Maurois, but Société Gene-Claude Etchagaray of Usinor, son and Jean Candois of rale chairman Maurice Laure Rhone-Poulenc might just could well stay on.

Michel Hug, the equipment

Franse (EDF), might replace Boyssonnie at Thomas and Alain Gomez, one of the founders of the left-wing Ceres Group and chairman of one of the Saint Gobain susidiaries, is sure to get a senior post, possibly at Rhone-Poulenc. Raymond Levy, former deputy chairman of the oil

holding company Erap, is tipped as a possible second chairman in the steel sector. Changes may also occur within the banks already under state control. BNP Banque Nationalede Paris

chairman Jacques Calvin, is Among the present leaders expected to step down, of the industrial groups, possibly in favour of deputy Ambroise Roux of Compagnie Generale d'Electricite, Thomas, Crédit Lyonais Chairman Claude Pierreinternational affairs director

good joke when it put out an advertisement proclaiming "Persil Automatic gives you cleaner drawers . . . you won't see Persil Automatic sticking around your drawers". The joke, however, is upon Lever Brothers, which will have to Simon Nora, a support of companies which foreign the computer group CII
Honeywell-Bull, the pharmaceutical group Roussel Uclaf
and ITT France, but already change the ad because the Advertising Standards Auth-ority has upheld a complaint from a lady in Norfolk (but not from N.O.R.W.I.C.H.) there is strong speculation that Gerard Thiery, the architect of France's modernized telephone sys-tem, will become chairman of who said Persil often stuck in the soap powder drawer of her washing machine.

Ross Davies

M. J. H. Nightingale & Co. Limited 27/28 Lovat Lane London EC3R 8EB Telephone 01-621 1212

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104	85	Deborah Services	85		5.5	6.6		8.0
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78	46	George Blair	48	_		_		_
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334	252	Robert Jenkins	252	-2	31.3	12.4		8.9
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An old Manchester cotton

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Stock Exchange Prices

Firm tone

ACCOUNT DAYS: Dealings Began, Jan 11. Dealings End Jan 22. S Contango Day, Jan 25. Settlement Day, Feb 1



§ Forward bargains are permitted on two previous days Int. Gross entry Red. Yield Yield Gross Div Yid Price Ch'ge pence % COMMERCIAL AND INDUSTRIAL 647770744751145045012186551114424338041177662305477765569913449725184877518547771466266833544619141695 328 223 141 32 112 139 Anglo Am Coal E15
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Do A NV 129
Conlite Grp 131
Collins W. 129
Conlite Grp 131
Control & 198
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Conder Int 80
Copon Fresce 153
Combe Grp 24
Control Int 80
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Comben Grp 24
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254 132 BP Canada
244 132 Can Pac Ord
152 84 El Paso
20 154 Exxon Corp
254 149 Pluor
272 75 Hudky Oil
174 67 Klaser Alum
250 82 Massey-Ferg
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174 79 Pac Pac Canadian
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Greece
Hongkong
Irat
Kuwatt
Malaysta
Morico
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Rugby Union

Australian coach defends his tactics

Sydney, Jan 13.—A pale but firm Australian coach, Hob Tem-pleton, defended tactics and selections on the Australian tour of Britain when the team returned here today. Mr Templeton said at a press conference: "I accept the

The opposition in Britain, the coach said, played mainly not to lose, rather than to win: "We found the opposition kicking and waiting for us to make errors. We were put under enormous pressure and found we couldn't run our selves out of trouble. But we scored 63 tries in 23 matches, conceding nine despite bad weather, sloppy grounds and new rules interpretations."

The team manager, Sir Nicholas Shehadie, denied that the Australian captain, Tony Shaw, had learned of his dropping from the captaincy for the final international from the British press. Sir Nicholas ridiculed reports of team disharmony and jealousy between players from different states.

Asked about a story published in Australia by a Sydney journa-list, David Lord, on team unhap-piness, selection disagreements and lack of morale, Sir Nicholas said: "How would be (Lord) know? He was on the Continent with a group of tourists for many of our games."

Sir Nicholas said some of the older players like John Hipwell would probably retire from touring but laughed at suggestions of mass transfers to Rugby League in dissatisfaction at selection or management of the Wallaby rour nanagement of the Wallaby tour:
It is believed North Sydney have signed the Manly player.
Mitchell Cox and others will be approached when they have rested.

Mr Templeton said the injury to Michael O'Connor and a later setback before the clash with Scotland had jarred team balance: "Then Michael Hawker went on the casualty list to compound our problem?" pound our problems."
He said the hardest adjustment was to overcome the stifling of the Wallaby inside backs and tac-

tics employed against the Australian running style.—AP.

If Mr Templeton's observations about British rugby sound more acerbic than those he uttered here before departure, that is understandable, Peter West writes. I believe the Wallabies have had a rough rid in their own press. Mr Templeton may have felt on the defensive.

Templeton may have felt on the defensive.

He need not worry unduly. As Number Two to Sir Nicholas, he was part of as good a management team as ever toured these islands and I dare say it would be the first to stress how much, with Shaw, it owed to the support of semor players such as Mark Loane, Hipwell, Greg Cornelsen and Paul McLean. As I commented on Tuesday—although these particular words mistakenly were attributed to Mickey Steelewere attributed to Mickey Steele-Bodger—as ambassadors the Wallabies did themselves and

Clinton McKenzie, from Croydon, will take a contractual dispute with his manager to the Boxing Board of Control only days before he defends his British light-welterweight title against Steve Early, from Coventry, at the Bloomsbury Centre Hotel in London on February 19,

McKenzie, aged 26, confirmed yesterday that his manager, George Francis, will not be in his corner when he fights Early for his biggest ever purse of \$7.500

"The Board of Control are discussing the position at a special meeting on February 2", he said.
"But whatever happens, my father-in-law, Fred Rix will be in my corner for this fight. I must

confess, however, the problem is worrying me. I even go to bed at nights thinking about it."

The bout, which is already sold oot, creates a number of "firsts" for followers of boxing in Loudon. It will be staged by a new promoter, Frank Warren, aged 29, who may yet break the current monopoly held for more than 10 years by Harry Levene, Mike Barrett and Micky Duff.

It is also on a Friday night—

It is also on a Friday night— strange in British boxing circles

Spinks, a gold medallist at the

1976 Montreal Olympics, has won all 18 of his professional bouts, stopping 12 opponents. He took

ritle from another American. Eddie Mustaffa Muhammad, in Las Vagas last July, winning a 15-

The bout, which is already sold

dispute with his manager

sortiam.

Boxing

Dublin international postponed a week

By Peter West Rugby Correspondent The adverse weather, especially in Wales, has caused the international between Ireland and

A joint statement from the Irish and Welsh Rugby Unions said that special account had been taken of the travel difficulties the Welsh team and supporters would have faced. Apart from that, there was no assurance that the Lansdowne Road pitch would have become playable in time. The WRU coaching organizer, John Dawes, halled the

The WRU coaching organizer, John Dawes, hadded the postpone ment as a blessing in disguise. "Our players have hardly had a game in weeks," he said, "so I doubt whether they could have been genuinely fit enough to play an international." play an international."
As things stand, both teams may be lucky if they get in any match practice before January 23. They are hoping on both sides of the water to assemble their squads for the usual pre-liminaries on Sunday. It seems highly improbable that the Welsh on that occasion will be able to train outdoors. train outdoors

train outdoors.

A by-product of the postponement involves concern in Wales about the third round ties in the Welsh Cup, sponsored by Schweppes, due on Saturday week. Brian Kempson, assistant secretary of the Welsh, union, said yesterday that they would have to find a new date, or dates, at least for those clubs whose players will be in Dublin that day. A further statement is expected, but meanwhile Mr. that day. A further statement is expected, but meanwhile Mr-Kempson takes the view that his union should deal with one crisis at a time. There are several second round cop ties still un-

to Edinburgh this morning in preparation for Saturday's Calmatch was last called off at Landowne Road.

International between Ireland and Wales, due to have been played in Dublin on Saturday, to be postponed for a week. Tickets for the original date remain valid. It is 50 years since a big match was last called off at Landowne Road.

Hesford whether he will be fit enough to do himself justice, but his morale can be none the worse morate can be none the worse for hearing from the selectors that they want to give him as much time as possible to prove his readiness to play. As Don Rutherford told him from I wickenham yesterday, the English party will include a doctor, an orthopædic surgeon and a physiotherapist, so he should not be short of expert advice. be short of expert advice.

If Hesford has to withdraw, Teague will become the fifth forward from the Gloucester club to win a cap in 13 months. Philip Blakeway played in all four championship matches last season and, when replaced in the Ireland international, made way for his abstractionary. for his club colleague, Gordon Sargent. Steve Mills and John Fidler both won two caps in Argentina in the summer. Teague, aged 22, is a product of Churchages 22, is a promoter of courer-down Comprehensive School who joined Gloucester from the local junior club, Old Blues, three years ago, winning a regular place last season.

Trojans face Scots

London Scottish and Black-teath have decided to postpone their match on Saturday because they are due to meet in the John Player Cup the following weekend. London Scottish have union should deal with one crisis now arranged an away match second round cop ties still unescolved.

Bob Hesford's strained ankle with Trojans at Southampton, while Blackheath will entertain the Warwickshire club, Newboldon-Avon at the Rectory Field.

Rugby League

Carleton rejects Wigan

By Keith Macklin

John Carleton, the England Rugby Union winger, has again rejected a tempting offer to turn professional. Carleton plays for Orrell, which is just a stone's throw from the Wigan ground at Central Park, and Wigan have made a £40,000 bid to sign the winger. The terms appear to have been a £20,000 down payment with a further £20,000 phased over several seasons, conditional no doubt on Carleton's regular appearances.

Despite these attractive terms, Carleton has again chosen to retain his amateur status and continue his successful career with England. Two years ago he was the subject of a bid from Widnes, which was then stated to be in the region of £25,000. Wigan and Widnes are not the only clubs to be showing interest in Carleton, whose speed, toughness and try-

—and will be televised by the BBC—a rare occasion for them to televise a London show not pro-moted by the recognized con-

Mr Warren said yesterday: "I think getting the BBC to cover the fight is a breakthrough, Too often in the past, they have been content to cover shows at

Content to cover shows at Wembley and the Albert Hell and little else.

scoring flair make him a natural candidate for Rugby League. Hull Kingston Rovers, one of

the two big-spending Humberside clubs, are also in the chase, and have not been discouraged by Carleton's rejection of the Wigan offer. St Helens are also watching on the sidelines, although they have just spent £37,000 on a young forward from Keighley, Gary Moorby. young forward Gary Moorby.

Gary Moorby.

It now seems certain that the Great Britain v France under-24 international on Saturday will be moved to Headingley. Although a final decision is to be made this afternoon by a senior referee John McDonald, the Leigh general manager John Stringer said yesterday: "There is a covering of snow and several degrees of frost in the pitch. There will have to be a remarkable rise in temperature to get the pitch ready."

1882 Calcutta Cup defeat spelt the end for England's captain

THE TIMES THURSDAY JANUARY 14 1982

How Hornby left the rails

The England-Scotland match of 1882 was played at Man-chester, and won by Scot-land by two tries to nil. It was the twelch of the scries and the fourth for the Calcuma Cup, which the Calcutta Club, finding themselves short of ponents, once the Buffs had departed, presented as their own memorial to the game in 1878.

It was a memorable match in more ways than one. It was the first time either side had won on the other's territory. It was the first time it had been thought necessary to have a neutral referee The precaution did not stop

the game becoming disorderly. According to the account in the 1892 edition of Marshall's history, "there was an enormous crowd of spectators, and to cope with the numbers, who climbed over the barriers and invaded the field of play. It was a marvel how the game was continued at all . only point in England's favour was a good run by Payne, who but for the spectators might have crossed the line."

There is an English flavour to that report, but it seems to have been a typical Manchester crowd. No doubt some of them, in that first age of the train, may have come from across the border.

The English captain was A: N. Hornby. He was a Lancashire man, very much so, and it was his last international. Later that year Hornby captained England at cricket (in the famous. Oval match when Australia won by seven runs) and became the first man to have led England at both

He played at full back, he did not have the physique for it as it was expected in those days; he was a light nimble man, nitk-named "Monkey" at Harrow, not for his looks but his small size. He had done better as a nationals. Anyway, he did not have a

happy match. Marshall is severe: "Hornby was unequal to the task of keeping the Scotsmen out. His tackling was good, but in fielding the ball and in punting he was far re-moved from his best form." Thus ended poor Hornby, as

a rugby international, though he had much glory still to come on Lancashire's cricket desperate selection crisis, he was asked to play against Scotland again, but declined, be-cause, he explained, it would interfere with his shooting, which was going "particularly well." (sic).

In 1882 the game had been Lagan, their right three-



Vassall, a member of the beaten England side, who later became honorary treasurer of the RFU.

reduced to 15 men a side: 10 forwards, two half backs, two three-quarters and a full back, hough Scotland seemed to have perplexed England and Hornby, by playing three threequarters from time to time

The England side included a strong contingent from northern clubs: three from Mauchester and one each from Swinton, Broughton, Halifax and Yorksbire Wanderers (the others came from the universities and the two senior clubs, Blackheath and Richmond). There were already dark rumours about under-cover

professionalism in the north. The Scotland side was made up entirely from the former pupils clubs: not a Borderer in the team. Their half backs were A. R. Don Wauchope, of Fettesian Lorettonians, and W. Forley Brown, of Edinburgh Institution FP (the Institution was then the strongest Scottish club and four of their mem-

Don Wauchope played 11 able figure in those days of few international fixtures, and Brown eight. Don Wauchope's tactical developments at the base of the scrum were to prove important to the game, as were those of Vassall, who was in the England side, and had much to do with introducing the system of three threequarters into English rugby. But the Scottish hero at Man-

bers were chosen).

quarter. I quote again from Marshall, but this time from a different section, which was contributed by a Scottish

"Although defence was un-doubtedly MacLagan's strong point, if he got the ball within a dozen yards of the line he was a most dangerous man in more waps than one and an ordinary player might well be excused if he took second thought about standing up before him when he was bent upon scoring. "Roughness has often been imputed to him and there is

no doubt in his younger days he now and again gave exhibitions of his strength which were not good for the subjects. More than once he has tossed man, full pitch as the bowlers would say, onto the little paling at Raeburn Place and made the timber crack." I have put in the italics my-self, but I stress that this is

an acount of a Scotsman, written by a Scotsman. Looking back on this match not a lot seems to have changed: rough play, crowd trouble, rumours of professionalism. But everybody seemed to enjoy themselves, apart possibly from those tossed onto the palings by MacLagau. And Scotland won. Let us hope that at least the first of these provisions applies when England next met Scotland.

Alan Gibson

Cycling,

McKenzie defends despite | Raleigh team that rings the changes By John Wilcockson

TI Raleigh presented a stream-lined 1982 racing team to the European press at a reception yesterday in the Bois de Boulogue yesterday in the Bois de Boulogne in Paris. The squad has been reduced from 16 to 14 riders, having lost the 1980 Tour de France winner, Joop Zoetemelk to his former French team and the 1979 world pursuit champion, Bert Oosterbosch, to a Belgian formation. Jo Maas, Bert Pronk and Wilfried Wesemael, all experienced riders, have also left.

The Creda branch of Tube

Investments is not putting money into the team this year. The replacement as co-sponsor is the Italian components manufacturer, Campagnolo, which will support IT Raleigh for a minimum of two

except as season. But the Northgham management would be most pleased with success in the world championship road race, which take: place at Goodwood in September.

wood in September.

Besides their European involvement, Tl Raleigh have also announced a £4,500 sponsorship of two British road race competitions, the Raleigh Riband for professionals and the Raleigh Star Trophy for amateurs. This follows the withdrawal of Pernod as the leading sponsor

"But I think it is their duty to give every promoter a fair track of the whip, and to televise good fights, whoever the promoter is. Now that the BBC have shown they are willing to negotiate with other promoters, it must be good for boxing and boxing fans." In their place, the team director, Peter Post, has signed three replacements, all from the Netherlands. Of these, Fritz Pirard is the most experienced, starting his fourth year as a professional after previously racing with French and previously racing with French and Belgian teams. Second place in the Tour of Flanders Classic was his best result last year.

McKenzie revealed that he had been offered less than Mr Warren's purse to defend his title at the Royal Albert Hall—one of the reasons for his split with Francis. Mr Warren, who is also expected to announce a Commonwealth title fight in the next day or so, claimed that he could, if necessary, stage shows at the Royal Albert Hall and Wembley Conference Centre. He said: "If the terms are right, and I get the right sort of fights, then that is where I will promote."

Wasajia, based in Denmark, is also undefeated, with 26 consecu-tive victories. He has stopped five of his opponents. It will be the first American appearance by

the Ugandan, whose most notable wins were over a former champion, Bob Foster, and two ranking Americans Jesse Burnett and Jerry Celestine.—Reuter.

Yachting

Crebbin is Britain's choice Davis unable to

By a Special Correspondent
Phil Crebbin will be the skipper and sailing manager of
Britain's chalenge for the 1983
America's Cup. His appointment
was announced yesterday by
Peter de Savary, head of the
Victory syndicate which is organting the challenge for yachting's
most important trophy. Crebbin,
aged 30, was skipper of the
Victory crew that won the 1981
Admiral's Cup and, amid a long
list of yachting actievements,
represented Great Britain at the
1976 Olympic Games.

Progress on building the
aluminium-hulled 12-metre class
yacht, at Souters of Cowes, is on
schedule, and a launch date at
the end of March is a realistic
proposition. The yacht will then
se shipped to Newvort. Rhode

proposition. The yacht will then be shipped to Newport, Rhode Island, where the summer train-ing session will start on the first of May. Shore facilities at New-port, including boaryard, boat hoists, sail loft and accommoda-tion for the team of 50 are all

Once shipped to the states, Victory will tune up throughout the summer against Australia,

the defeated challenger in 1980 which the syndicate has bought. A variety of helmsmen will be flown out to sail against Crebbin as and when available, with such names as Chris Law, Lawrie Smith and Harold Cudmore being mentioned.

names as Chris Law, Lawrie Smith and Harold Cudmore being mentioned.

Although naming a skipper for the challenge, it was clear that no one person within the team would be indispensable. It was also stressed that the decision about whether to use a separate tactician and navigator would be taken when the personalities involved had had a chance to work together.

Mr de Savary has already achieved a greater degree of cooperation between the eight expected challengers than has been possible before, and has arranged for Australia to have three separate training sessions against his team during 1982. It was further made clear that the syndicate intend to win the cup on the water, and not in the protest room, or lose it on a technicality and to this end all the challengers are working together to straighten out all possible technical uncertainties.

Flyer breaks record

By Barry Pickthall A decision has yet to be made whether the Durch-based ream will compete for the first time in the Tour of Italy, prior to its regular participation in the Tour de France. The team's best chance of prestige wins will be in the one-day classics, in which the team leader, Jan Raas, again excelled last season. But the Nortingham management would Flyer, the 76ft Frers design: skippered by the Dutch yachts-man Cornelis van Rietschoten, rounded Cape Horn at 5.30 GMT vesterday to clip more than three days off the record for this sector of the third leg of the Round the World race from Auckland.

The Dutch yacht which has also broken the records for the two previous legs of this 27,080-mile race, sponsored by Whithread, was followed less than half an hour later by the 68ft Ceramco New Zealand, skippered by Pete Blake. The two yachts have been racing almost neck and neck racing almost neck and neck across the southern ocean for the past two weeks, often in sight of each other, setting an average of 10.7 knots for the 4,700-mile dis-

In a radio message to The Times yesterday van Rietschoten reported that the weather conditions around this, the world's most notorious cape where winds can build up to hurricane force within hours and where his previous yacht suffered a severe knockdown during the last race four years ago, were living up to expectations. The wind strength had varied from almost nothing to force 11 during the day and very heavy rain had reduced visibility dramatically as well as making life uncomfortable on deck.

The local weather forecast for the next two days predicts light north-westerly headwinds, which will undoubtedly slow those yachts astern, including Eric Tabarly's Penduick VI, the earlier record holder which is thought to be in third place.

twist knife in Griffiths

Snooker

By a Special Correspondent
Terry Griffiths enjoyed the rare
distinction of being twice pursued by Steve Davis in the Lada
Classic 17-frame final at Oldham
yesterday.

He went in at the interval for
a tea that must have tasted like
nectar leading 4—3. When Davis
scored with his first shot of the
match and finished the frame
with a clearance of 96, visions
loomed of a repeat of last
month's United Kingdom final
when he crushed Griffiths 16—3
at Preston. at Preston.

at Preston.

They were not erased after Griffiths had levelled the score in the second. But a battle on blue in the third brought a quickening of the pulse. For 15 minutes the players were locked in dispute on this colour.

Griffiths, world champion in 1979, needed it for advantage. Davis required it, the remaining two colours and a couple of snookers. Typically, he would not bend.

bend.

The world champion managed one snooker, but Griffiths managed to pot the ball that mattered. From leading 2—1 he found himself on the wrong end of the see-saw and trailing by the odd frame after five. Davis had put in the knife again but for once could not twist it.

Although looking refreshed after his tremendous semi-final victory over Ray Reardon when after his tremendous semi-final victory over Ray Reardon when he clinched the match in the last frame with a clearance of 105, another large score could not be stitched together, against the Lianethi professional.

It was left to Griffiths to work the cue ball around the table, taking the sixth 62—31 and the last frame of the session 86—39. He rinned the scales with his

He tipped the scales with his second half-century of the match that brought the winner's cheque of £5,000 into range.

Ice bockey NATIONAL LEAGUE: Montreal Canadians 2 Los Angeles Kings 1.

23 pts

Latest European snow reports

Spinks defends title again

New York, Jan 13.—The World Boxing Association light-heavy-weight champion, Michael Spinks, of the United States, will defend his title against the No 1 contender, Mustafa Wasajja, of Uganda, in Atlantic City on February 13.

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Saas-Fee	90	160	Good	Heavy	Good	Fine
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St Moritz	120	220	Good	Varied	Good	Fine
Worn natches	on lo	wer slo	pes		T-1-	Fog
Sauze d'Ouix	80	180	ICA	Crust	Fair	rug
Good skiing o	и прр	er piste	S	Donados	Good	Cloud
Seefeld	125	165	Good	LOMOST	Good	CIONE
Good piste co Val d'Isère	nditio 170	280	Good	Varied	Good	Fine
All wins now	upen					T:
Villars	30	150	Good	Heavy	Fair	Fine
Conditions in	provi	DE .		Variat	Cain	Fog
Wengen	35	110	rair	Varied	Lan	r oğ
Good skiing o	ը սթք	er slope	25	4 -		sha Ski Cl
Je oba abana ase	arte.	emnlie	אל לו	oresenta	nves or	LUG SET CI

the above reports supplied by representatives of the Ski Chit Great Britain, L refers to lower slopes and U to upper slopes e following reports have been received from other sources: 135 230 — 160 190 — 100 195 — 30 270 — 80 210 — 120 170 — 180 260 — Söll Whidschönsu Zürr NORWAY Finse Gello Gol Nerefjell Osto Rjuksu

Skiing

Downhill world cup win for Canadian girl

Grindelwald, Jan 13.—Gerry Sorensen, aged 23, from Kim-berley, British Columbia, pro-duced another fine performance for the Canadian ski team by winning a women's world cup downhill here today.

The best of Canada's women downhillers, she confirmed the potential she showed in practice to record her second world cup downhill victory. She won an event in Haus, Austria, last February. Sorensen sped down a difficult icy 3.2 kilometres course in 2min 00.54sec to win by 0.32sec from Marie-Cecile Gros-Gandenier of

France, who clocked 2min 00.86 Sec.

LEADING POSITIONS: 1. Gerry Sorensen (Canada), 2 min 00.54 sec; 2. Mario-Cocile Gros-Gandenter (France), 2:00.96; 3. Elizabeth Chand (France), 2:01.09; 4. Cindy Nelson (US), 2:01.58; 5. Ingrid Eberle (Ansiris), 2:01.59; 6. Holly Flanders (US), 2:01.64; 6. Holly Flanders (US), 2:01.64; 6. Holly Flanders (US), 2:01.65; 6. Holly Flanders (US), 2:01.65; 7. Eberle 23; squal 6; 8. Epple 55; 5. Eberle 23; squal 6; 8. WORLD CLIP: 1. Erita Hess (Switzerland), 215 pis; 2. Irene Epple (West Garmany), 197; 3. Christine Cooper (United States), 93; 6. Mario-Rosa Quario (Italy), 77; 6. Hauni Wenzi (Liechtenstein), 724. | Tennis

Mottram will reinforce Britain's team By Rex Bellamy

Christopher Mottram reinforces the twice beaten British King's Cup team against the Netherlands in Amsterdam today. John Feaver, Jeremy Dier and John Whiteford were beaten 2-1 by West Germany at Hanover last Thursday and 3-0 by Sweden at Eskiltuna on Sunday. After today's match the British team fly home to play the same three nations in return matches. The first of these will be against Germany at Cardiff on Sunday. The Lawn Tennis Association had considered charging the location.

The Lawn Tennis Association had considered changing the location because of the weather, but Cardiff is now accessible.

The Germans who beat Britain at Hanover were Uhrich Planer, Peter Elter, Christopher Zipf and Hans-Peter Beutel and the same players are travelling to Cardiff, where Mottram will again be available to strengthen the British team. British team. AUCKLAND: C Lewis (NZ) beat Rightower (US), 6—2.6—3. Rightower (NZ) beat Revenden (NZ). Rightown (NZ) beat M Mitchell (US), 6—5.6—3.6—4. M Mitchell (US), 6—5. R van't Hor (US), beat C Sansbury (US), 6—6.6—3.6—6.6—3.6

Badminton

17 nations in Japanese championships

thought to be in third place.

Kobe, Jan 13.—All-England stockes champion, Sun Ai Hwang of South Korea will be the outstanding player on view when the 10 million yen (524,000) Japan open championships start tomography.

Japan open championships start tomorrow.

More than 80 players from 17 nations will take part and the women's field is stronger than the men's. Other top women here include world champion Verawaty Wiharjo of Indonesia and two leading Chinese players, Chen Ruizben and Li Lingwel.

The men's field has been downgraded by the late withdrawal of two former all-England champions, Rudy Hartono of Indonesia and Indian Prakash Padukone,

JOHANNESBURG: Lexington PGA
championship lirst round (SA uniese
mated: 65: D Walson: 66: D Februry
(Ireland). G Benfing: 67: B Rogers
US: M McNully. D Robertson (US:
8: S van Veuren. C Player, N Price,
18: S van Veuren. C Player, N Price,
18: S van Veuren. G Player, N Price,
18: S van Veuren. G Player, N Price,
18: S van Veuren. G Player,
18: S van Veuren. G Player,
18: S van Veuren. G Player,
18: S van Veuren.
18: S van V

For the record

Basketball

NATIONAL ASSOCIATION: Les Angeles Lakers 111. Cleveland Cavaliers 100: Philadelphia 76ors 95. Washington Bullets 92: Dotrolt Pistons 122. Chicago Bulla 111: San Antonio Spurs 127. Dallas Mavericks 109: Houston Rockets 107. San Diego Chipters 106: New York Knicks 129. Ulah Jazz 121: Phorak Suns 133, Golden State Warriors 121: Denver Nuggets 137. Kansas City Kings 126. KORAC CUP: Men's quarter-final, third series, group D: Tours 94, EFES istanbul 75

Cresta Run ST MORITZ: Baron Oertzen Cop thandicap: 1. M Siapleton (GB) handicap 4.90. net 1.31.69: 2. H R Gionzonam (Switzerland) 5.50, 1.331.99: 3. N Baracchi (Switzerland) teratch, 1.32.29.

Football ITALIAN LEAGUE (CALANZARO I. Squash rackets

GARFORTH: Debenhams \$8,500 Challenge Vase chemplouship: G Briars (Norfolk) best A Dwyer (Sus-sox;, 9—6, 9—3, 9—2,

ennis CINCINNATI: Women's fournament:

R Poner heat Duk Hee Lee, 6—0.

6—4: S Hanika (WG) beat. P Teeguarden-6—3: 6—1.

W King beat

R Rails heat. J Harrington. 6—0.

P Casele heat K Latham. 6—0.

J Russell heat Y Vermaak (SA). 7—5.

6—2: J Duric and A Hobbs (GB) beat

L Antonopils and Y Vermaak, 7—6.

1—5: Poiter and R Walsh beat

L Alico and J Russell. 6—4.

B Herr

and Duk Hee Lee. 6—2. 6—2.

Eight clubs in League Cup semi-final draw

The League Cup semi-final draw will go ahead as planaed today, although none of the quarter-finals have been com-pleted. Liverpool's match against Barnsley went ahead as scheduled but the goolless draw means a replay at Oakwell on Tuesday. The other quarter-finals have all been rescheduled for Monday, but Ipswich Town and Watford have agreed to play their game on Saturday if their league matches quarter-finals have been com-

Saturday if their league matches are postponed. Ipswich are away to Sunderland and Watford home to Newcastle United and neither game is given much chance unless there is a dramatic improvement in the weather. The number of league and cup postponements has now reached 285 and the total seems sure to pass 300 on Satur-day, when the programme is in danger of being virtually wiped out for the fifth time this season.

John Toshack, Swansea City's

out for the fifth time this season.

John Toshack, Swansea City's manager, was disappoluted yesterday when his request for a postponement of the first division match at Leeds on Saturday was rejected by the Football League management committee.

Mr Toshack had pointed out to the League that because of the adverse weather conditions in Wales his players had been unable to train for a week and the rail strike and the condition of the motorways was combining to make travelling virtually impossible. The coach company which usually takes Swansea players on away matches is also not prepared to commit itself to a Friday trip.

The League's view is that as the rail strike ends and with three days to the match, the weather in Wales still has time to make improvement. What may also have swayed the League is that the Leeds pitch has undersoil heating and is in near perfect condition. It is one of the few

matches that seems certain to be played.

Sheffield Wednesday's manager, Jack Charlton, yesterday; gave this advice to all his club's supporters: "Don't bother 10 gave this advice to all his club's supporters: "Don't bother to watch us at Derby". Mr Chaffon is angry that Derby County, due to meet Wednesday at the Base ball Ground on January 30, have raised their prices for visiting supporters. Derby is only 38 miles from Sheffield and the expected 7,000 Wednesday supporters are from Sheffield and the expected 7,000 Wednesday supporters are faced with a minimum entrance fee of £4 to see the match. Derby claim they have increased their prices for visiting supporters in an effort to keep out hooligans. Plans by Rangers to beat the Plans by Rangers to beat the weather and play Tortenham Hotspur at Jurix on Saturday have fallen flat. The Scottish League management committee will demand that the premier division club clear a postponed fixture against. Dundee United originally scheduled on November 28—the day the two teams met in the Scottish League Cup final. Everything depends on Rangers' away game against St Mirren, Dundee United's derby against. Dundee and Sputs' home game with Middlesbrough, all of which are doubtful at the moment.

Today's fixtures FA TROPHY: Third qualify, round, replays: Graves and y Bosh and Ewell: Additione and Wegbride v Leatherhead; S. Alban's City Enderby Town. S. Alban's City Enderby Town. S. Alban's City Enderby Town. First division Hully v York. S. Alban's City Enderby Colhestor United v Norcastic United. Sunderland v Rothe ham. League Cup fifth round: Inswit Town v Walford, Scotlish Cup. Strewsbury Town. Rugby Union, city Strewsbury Town. Rugby Union, city matches (all cancelled): Bridgerd South Walsh Cup. Caernarfon South Walsh Cup. Caernarfon

Beautiful and bizarre in great California desert

From John Ballantine
Palm Springs, Jan 13
Golf as played here in the great
Californian desert, in the Bob
Hope Classic, is at once beautiful
and bizarre, easy and difficult,
fractoring has often repeating. frustrating but often rewarding. Perhaps the best way for Britons to see the picture is to imagine the scene laid out as a model.

the scene laid out as a model.

Square green-mottled coccount matting could represent the flat sand and scrub desert floor, Down one side place a range of stark brown mountains against which the four golf courses of Indian Wells, Bermuda Dunes, Eldorado and La Quinta nestle like green linen handkerchiefs. A gentle fold or two in the latter could indicate the few undulations, especially round the greens, which were moulded by bull-dozers. Six or seven pieces of glass on each handkerchief could imitate strategically placed manimitate strategically placed man-made lakes. Hundreds of palm trees and bushes, together with a multitude of bunkers, complete

the picture.

The courses are a few miles apart and every professional plays each of them in turn for four days with three different amateurs each day, the 70 leading profes-sionals returning to Indian Wells sionals returning to Indian Wells for a fifth and final round on Sunday. At the Hope players can sumbathe by their swimming pools in Palm Springs in 75 deg. and, half an hour later, via the

Swiss-built aerial tramway step

out into 20 deg. and two feet of snow at the summer of the 8,000ft San Jacinto mountain.

From the top the irregular scrub on the floor of the Coachella valley marks the dreaded San Address earthquise fault San Andrea earthquake fault where California may, one day, break off into the Pacific like a dry biscuit. A local joke goes:
"At least our houses will then Last week Tucson was the

Last week lucson was the bird driest and warmest spot in this blizzard-plagued nation and the tour professionals look like being lucky again this week. A 20 mph wind made the palms buzz like windmills on all courses to-day, and stirred up occasional small sandstorms in the surround-ing desert; but it was still shirtsleeve weather.

The courses are marvels of in-

genuity, albeit artificial. This soil is so productive that, as they also say in Florida, you just have to plant sprigs of heat-resisting rve or Bermuda grass, add a few million gallons of water, and then jump back ". Yesterday the leading profes-

sionals played a charity "all-American" day at Peter Ooster-huis's club, Mission Hills. Larny Wadkins won the warm-up event. scoring eight birdies in a four under par 68, with Ben Cronshaw and Bobby Clampett tied second. Craig Stadler, last week's Tucson winner, scored 81.

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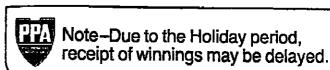
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From Richard Streeton Madras, Jan 13

England boldly gave India first use of a lively worker when the fifth Test match began here today, but two dropped carches wended their gamble ineffective through some uncertain though some uncertain plendour before he had to retire hurt. By the close India had reached 178 for two and on their way to a big total.

Allott bowled with constant hostility and his line never wavered. He was unfortunate to have Gavaskar, and then Vengsarkar haten in would have given and would have given and would have had India struggling.

Fletcher needs go justifying for his decision to put India in after he won the toss for the fourth succession.

Willis bowled with more fire and steely resolution than he has shown in the earlier tests. Dilley began well but carried less threat later and it was Allott who caused the Indians more trouble

in menus with batting of regal piendour before he had to retire furt. By the close India had ceached 178 for two and on their way to a big total.

Venerarkar was hit on the fact: of the head shortly after tea had bouncer from willis that hatch for head shortly after tea had bouncer from willis that hatch for head shortly after tea had bouncer from willis that hatch for head shortly after tea had bouncer from willis that hatch for head shortly after tea had bouncer from willis that hatch of the head shortly after tea had been and went for a precautionary X-ray examination.

Forceful drives on both sides of the wicker were the main feature of Venezarkar's batting and without had India's progress would have being funereal.

This was the lowest first day score by a geries of mostly grim hatting and England's over rate of 12 an hour throughout was also the worst by either side, plambing new depths of unnecessary redium, having made.

And would have had India's struggling.

Fletcher needs so justifying for his decision to put India in fourth successive Test match. Where he could he fauthed, perhaps, was in not giving the new hall to Allott as he originally introded to do.

Botham and Taylor, England's two invalids overnight, were both ably lighter, shared the new hall with Willis and undestandably was not able to use it with his usual skill. He moved the ball away late from the batsmen, but he lacked that extra bit of pace and venom and bowled far too many balls that the batsmen could leave alone at a time when it was crucial for England to take tours.

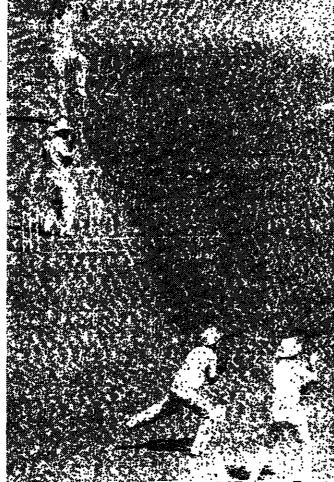
and without his india's progress would have been funereal.

This was the lowest first day core in a pries of mostly grim batting and England's over rate of 12 am hour throughout was also the worst by either side, plumbing new depths of mnecessay redium, having made that paint, it also has to be stream how splendidly England's four quick bowlers, and Underwood, stuck to a gruelling task with commendable spirit. The side also fielded with zest all its former picturesque and olde world features in its recent rebuilding and is now one more giant concrete stadium with covered grandstands. The centre of the field must have been like a furnace but England never flagged.

There was always enough bounce in the greenish pitch to keep the bowlers interested and India's resolute batting has to be praised. Viswanath, who has so far been in three hours and a quarter, in particular disciplined himself well and Yashpal Sharma played through the final hour with faultless concentration as England desperately sought a further breakthrough.

Was not able to use it with his away late from the batsmen, but he lacked that extra bit of pace and venom and bowled far too many balls that the batsmen could leave alone at a time when it was crucial for England to take control. When Botham bowled much better later on the batsmen were entreuched. Underwood only had ten overs and both Vengsarkar and Viswanath used their feet freely against him. Underwood though will undoubtedly come into his own later in the match. The bounce is already erratic and the pitch might yet yield some turn later in the game.

The atmosphere was electrical in the early stages when Willis bowled to Gavaskar who had to summon all his ability to deal with balls that reared nastily and sometimes moved away. Gavaskar last leading and in over the sum of th



Jubilation turns to anguish as Paul Allott sees Tavare, one of England's finest slip fielders, drop a catch given by Gavaskar

It has been one of the sadder aspects of this tour that Tavare, probably the finest slip fieldsman in English cricket, some times has been less than sure of himself in the field on this tour.

and jerked his thumb towards the pavilion in Roy's face, a boorish and unnecessary gesture irres-pective of how clated the bowler Gavaskar had reached 8 and the total was 13 when he was missed at first slip by Tavare's hands to the drove loosely and the ball flew through Tavare's hands to this right at head height.

himself in the field on this tour.

England gained their first when he played defensively against Allott and the ball flew from the ball flew from high on the ball to Gooth at third slip. Gooch dived forward and the ball seemed to bounce from his hands as his elbows hit the ground. By lunch India were

49 for one and had crossed their first hurdle more safely than should have been the case.

Gavaskar was out when Willis returned after lunch. He played back to a ball that left him late and turned to walk away before the catch reached Taylor. He had been in 135 minutes and though the scorebook bardly reflects it, he had played a fine innings of its sort:

its sort.

Viswamath was almost caught at short square leg as he fended off his first ball from Willis. It was at this point that Vengsarkar, who had hit hard from the start even if often direct to a fieldsman, Jaunched into the day's only aggressive sequence of hitting, taking 18 from the five balls of an over by Botham.

The last four successive fours

The last four successive fours came with two offside drives, followed by an on-drive and then another boundary edged through the slips, and finally a square cut for two. When Vengsarkar reached 51 out of 74 scored while he was in, he had faced only 53 balls and hit nine fours.

India after lunch scored 50 in 10 overs. After this Underwood and Allott imposed a brake and India were only 141 for two at tea, with 33 runs coming in the hour before the interval.

tea, with 33 runs coming m the hour before the interval.
England has cause to feel pleased with themselves that they had restricted the scoring rate when India might have wrested the initiative, and the pattern did not alter much in the final 90 minutes. Vengsarkar had reached the interval the second in the s

minutes. Vengsarkar had reached 71 when he was injured, the mishap bringing a halt to an impressive display.

Viswanath came through an unsettled start and drove and hit to the legside with some typically wristy strokes, but neither he nor Yashpal Sharma took any risks. Overall, it has to be considered India's day, but what a different story it might have different story it might have

Extras a b 6, w 1
Total (2 wta)
178
A Mashotra, R J Shestri, Kapif Dev. † S M H
Kirnami, S Maden Lai, D R Doshi to bet.
FALL OF WICKETS: 1-19, 2-51
SOWILING (to date): Whits, 15-7-25-1;
Sowilling (to date): Whits, 15-7-25-1;
Sowilling (to date): Whits, 15-7-25-1;
Sowilling (to date): The sowilling of the date;
BCJ_ARD: G A Gooch, C J Tavard, "K W
Finterher, D I Gower, I T Botham, M W
Gatting, G R Dilley, † R W Taylor, D I
Underwood, P J W Allott, R G D Willis.
Unnolves Harstmanthe Rao and B Gongulf.

Racing

Gaye Chance on favourable mark for Schweppes Trophy

decision."
David Elsworth's Champion Hurdle hope, Heighlin, comes next in the handicap with 11st 12lb. However, the Hampshire trainer also has Walnut Wonder, British Crown and Remezzo engaged in the race. "I'm not sure how many I'll run at present" said Elsworth, "I know Remezzo has not run since present" said Elsworth, "A know Remerzo has not run since November 1980 when he finished third to Sea Pigeon and Celtic Ryde at Sandown. With 9st 11lb he's reasonably treated, just on that form. He's very well and if there is a break in the weather I

due to take place, the clerk of the course, Captain Nick Beaumont, said: "Unless there is a remark-

said: "Unless there is a tenark; the able change in the weather, the situation for Saturday looks hopeless." The stewards will inspect the course at 11 am

At Market Rasen the clerk of the course, John Lucas, said "it

doesn't look too good" and at Newcastle there are snow drifts of up to four feet on the course and 16 degrees of frost. There

Little hope for Ascot

Hopes for a resumption of racing on Saturday are bleak. Already, tomorrow's three meetings at Ascot, Towcester and Hereford (called off on Tuesday) have been cancelled because of deep snow, and prospects have not improved for the weekend.

At Ascot, where the Lambert and Butler Steeplechase final was due to take place, the clerk of the

By Michael Seely

The publication of the weights for the Schweppes Gold Trophy yesterday provided a welcome relief from the boredom of having no racing. In the twenneth year of their spousorship Schweppes have raised their contribution to this always competitive handicap to £21,000 of the £25,000 in added money. For the first time in the history of the race there will be no penalties for subsequent winners and once again an enthralling contest seems assured at Newbury on February 13.

Due to the furious gallop at which the race is run and the large number of competitors that take part, the Schweppes generally falls to a horse carrying a light weight. In fact, only three horses have carried over 11st to victory. Le Vermontois in 1966, Persian War in 1968 and Within the Lawi in 1979.

This year Sea Pigeon had been allotted pride of place with 12st 0lb, but Pat Muldoon says that his dual champion hurdler will not take part. Then comes Celtic Ryde with 11st 13lb; the same weight as carried by Persian War in record breaking victory. Peter Cundell had an open mind at present. "Quite frankly I do not see how the hendicapper could have given us any less. Apart from some of the unknown quantities at the bottom we seem reasonably treated with most of our opponents. However, Celtic Ryde will run in the Queley Hurdle at Kempton. "I would say that in the Lawing his reached with most of our opponents. However, Celtic Ryde will run in the Queley Hurdle at Kempton, the previous Saturday, before we reach a decision."

David Elsworth's Champion hurdle hope, Heighlin, comes next in the handicap with 11st 12lb. However, the Hampshire trainer also has Walnut Wonder, British Crown and Remezo engaged in the race. "I'm unt

handicapper.

Donegal Prince is a useful

British Crown and Remezzo engaged in the race. "I'm not sure how many I'll run at present" said Elsworth, "I know Remezzo has not run since November 1980 when he finished third to Sea Pigeon and Celtic Ryde at Sandown. With 9st 11lb he's reasonably treated, just on that form. He's very well and if there is a break in the weather I intend to run him in the Lanzarote Hurdle at Kempton." Wahnt Wonder and Remezzo will probably be the pick of the Elsworth quartet.

Of the rest of the division Hamber of the race is choice at 14-1 and the Tote have Ekbalco and Mr Moonraker

Mercy Rimell: considers Gaye Chance reasonably

bracketed together at the same t is too early to consider compiling a short list, particularly as the plans for the several trish raiders are as yet unknown. But if my life depended on it. Gaye Chance must represent the best each way value at the 16-1

which is generally on offer.

The block of 11-7, Birds Nost 12-11-6,

Consungin Ranger 8-11-5, Caye Chance

T-11-4, Sterion 6-11-4, Prince Rowan 8-11-7,

Total Merchant 7-11-0, No Bombs 7-11-0, Say

George 6-10-13, Partistore 6-10-13, Fordauction 6-10-12, Fane Ranger 5-10-11, Another

Story 6-10-11, Backworth Boy 7-10-7, Hannan

Hame 6-10-6, Kohme 5-10-5, Defenshert

6-10-4, Donegol Prince 6-10-4, Lumen 7-10-4,

Ra Tagu 5-10-3, Beetlacus 8-10-3, Mr

Representer 8-10-2, Meant Flavrad 9-10-2, Mr

Moonraker 5-10-2, Ecpario 7-10-0, The

Tastrovich 6-9-13, Grey Marile 5-9-11, France

6-9-10, Apple Witn 5-9-9, Curribum 5-9-3, Right

Old Time 6-9-9, Everall 7-9-8, Homeson 5-9-7,

York Comage 5-9-7, Luska Floke 6-9-7, Herer

7-9-7, Du Maurier 9-9-6, Norquate 9-9-5, Wahn

Wonder 7-9-5, Fledge 5-9-4, Kahrdisin Cesits

6-9-3, Court Green 5-9-4, Kahrdisin Cesits

6-9-3, Court Green 5-9-1, Kindred 6-9-1;

Franciscus 5-9-1, Kraghthand 7-9-1, Kindred 6-9-1;

Fr Rodster 6-8-12. Stunder 5-8-12. Let 3-8-8. Pulse Rate 6-8-9. Corker 6-8-9. Prince of Bermada 7-9-9. Decorative 5-8-7. Indea 9 00uble 5-8-7. Western Man 7-8-7. htt Soon 7-8-7. What Bend 5-8-7. Cop Decor 10-8-7. Part-Ex 9-8-7. Western Bess 6-8-7. Learning 5-8-7. Holesmoor Star 5-8-7. Kastand 5-8-7. Holesmoor Star 5-8-7.

Controversial wicket to be rebuilt

is to be completely recon-structed a Victorian Cricket Association (VCA) official said

West Indies captain.

The VCA secretary, Ken Jacobs, said that after talks between his association and the Marking the final but will need to win the next three games (one against Pakistan and two against Pakistan and two against Indies) to qualify. A final agreed that the centre wicket area at the ground would be totally rebuilt. Work would start as soon as possible after January 24. The project, to be carried out over two years, includes the installation of underground heating, he said. Mr Jacobs said the VCA would recommend to the Australian Cricket Board that the fifth and final World Series Cup match — scheduled for February The decision to rebuild the pitch.

The decision to rebuild the pitch is the result of continued criticism over its unevenness and damp spots. Chappell and Lloyd have both complained that the wicket is dangerous.— Reuter.

Kent splash out

Kent have ordered a £6,500 "whale" water-clearing machine. Kent were impressed when Surrey Jent them their "whale" last season and are currently trying to buy a trailer so the machine can be transported around their cricket grounds.

scottand's arrival at the penultimate stage of competition in the European zone of the Thomas Cup has caused eyebrows to be raised throughout the Eritish badminton com-

On January 25 and 26, in the

rather unlikely setting of the sports centre at Grangemouth,

the oil port at the head of the Firth of Forth, Scotland will play Denmark in a semi-final match which will do much to prove (or otherwise) that the game north of the border has come of age.

Alderman fights losing battle

ground tomorrow.

Alderman had an X-ray exam-

Association (VCA) official said today. The decision follows pressure from the VCA and criticism of the wicket by Greg Chappell, the Australian Test captain. Others who have criticized it include Clive Lloyd, the West Indies captain.

The VCA secretary, Ken lacobs, said that after talks

West Indies) to qualify. A final without Australia could cost the Australian Cricket Board between \$A250,000 and

match crowd of 78,142 at Sunday's game between Australia and West Indies at Melbourne Cricket Ground. The first game of the finals will be played in Melbourne on January 23 but it is unlikely to produce anything near that figure.

Pakistan are convinced they are the victims of official blundering as they fail to get centre wicket practice at the Sydney Cricket Ground. The manager Ijaz Butt says tour conditions state that practice on the SCG under lights was possible. The Pakistanis are without experience under lights and their fast medium bowler Sarfraz Nawaz withdrew from Tuesden night's control of the says to the says of th Tuesday night's game against cent.

Sydney, Jan 13 — The injured West Indies because he feit he Australian fast bowler, Terry would be a handicap to the team Alderman, is unlikely to be with a need to wear glasses at considered for the important might. Sarfraz will try a new pair match with Pakistan in the World of contact lenses tomorrow series Cup at Sydney Cricket might.

The West Indians lead on the strike rate in the series but Australia are just ahead of Pakistan and might have the edge unless the Pakistan team can beat their phobia about the lighting. Speaking about playing under lights recently the Australian captain Greg Chappell said: "You don't look at the lights. It's all very natural and you get on with the job". With Alderman unlikely to play

with Adderman unitately to play tomorrow, the decision facing the Australian selectors is the choice at No.3 between John Dyson, a success with his 126 in the drawn second Test against West Indies and the New South Wales Wales captain Rick McCosker. McCosker has accumulated 770 runs from eight first class and one-day matches with an average of 154 and loves the SCG. The likely Australian (cam in batting order, is:
G. M. Wood, B. M. Laird, J. Dyson or R. B. McCosker, G. S. Chappell, K. J. Huges, A. R. Border, R. W. Marsh, G. F. Lawson, D. K. Likee, M. F. Malone, J. R. Thomson, T. M. Alderman

Michael Holding, the West Michael Holding, the West Indies fast bowler, today said he would have to undergo knee surgery immediately after the third Test against Australia which begins in Adelaide on January 30. Holding has taken 22 Australian wickets at a cost of 12 runs in two one-day matches and two Tests despite the injury. Medical estimates say it reduces his bowling capacity to 80 per cent.

Scotland reap the rewards of Campbell's emphasis on the mental approach

Thinking man's guide to better badminton



Alderman: his likely absence is good news for

Spectacular century by Miss Alderman

Auckland, Jan 13. — A fine century by Denise Alderman, sister of Terry Alderman, led Australia to victory by 138 runs over the provincial New Zealand team North Shore in the women's World Cun today.

Miss Alderman's 117 included eight fours and took 130 minutes. Australia made 234 and North Shore managed only 96 in reply. A much improved Indian side, after losing to England yesterday, had a comfortable victory by 146 runs against Auckland, their batting skills and quick running between wickets helping them to amass 262 runs for six wickets. Auckland mustered just 116. SCORES: india 262 tor 6 ff Khalees 73: G Banelse 58; S Kuskami 58; S Gachris 3 tor 37; Auckland 16 ft. Scores: india 262 tor 6 ff Khalees 73: G Banelse 58; S Kuskami 58; S Gachris 3 tor 37; Auckland 16 ft. Smpson 32; S Rangaswami 3 for 21, S Kuskami 4 tor 17). Austrelia 234 (D Alderman 117; E Backsum 2 tor 23); North Shore 96 ft. Miller 47; 1 Fuston 3 for 33).—Reuter.

Warwickshire's seam bowler Steve Perryman has joined Worcestershire in their second Worcestershire in their second change of players between the neighbouring counties this winter. Jim Cumbes recently moved in the opposite direction to Edgbaston. Perryman, aged 26, took 309 first class wickets for Warwickshire, with a best-ever season haul of 73 when he was canned in 1977. capped in 1977.

afternoons

By John Hennessy

Ski Sunday, as its title implies, is the book of the film, the television film with which the BBC has this winter provided a delicious sporting paradox. At a time when the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost university than the country has been dislocated by almost the country has been discountry than the country has been discountry that the country has been discountry than the country that the country has been discountry that the country dislocated by almost unpre-cedented falls of snow and transformed into a winter won-detland for properly equipped skiers, the television producers have had to cope with races abandoned because of too little snow, because of too much snow, or because of the right amount of snow, either lost in a fog or disintegrating under persistent

gramme just as John Samuel sports editor of the Guardian, in his alter ego, has succeeded in assembling an informative and attractive book on the BBC's behalf.

behalf.

He has recruited a formidable team, not only of journalists but also of racers, among them Ken Read, a Canadian as articulate as he is courageous; Divina Galica, a heroine of yesteryear in British colours, and Konrad Bartelski,

four years, the Winter Olympics serve the same purpose. To us, the holder of the women's world championship giant slalom is not Maria Epple, nor Josef Walcher the holder of the men's downhill, as the BBC have recently misinformed us. True, they won their events in Garmisch in 1978, but the titles passed to Hanni Wenzel and Leonhard Stock at the Lake Placid Olympics of 1980. The book, however, is free of solecisms and should prove a solecisms and should prove a cosy companion on the Sunday afternoons ahead. It is published

WELLAM HILL LINCOLN HANDICAP

(1st acceptors: Doncaster Seturday March 27
Im straight). Silver Sesson, Home Coming.
Engult, Cragador, Sula Bula, Morayshire.
Steeple Bell, Bunter, Glyndobourne, Pauloger,
Prastorian Gusard, Silca Star Key, Teamwork,
Paturno, Beeteugh. Ditton Wood, Hanoc,
Buzzards Bay, Lisler, Cyrus Sky, Tugeflove,
Herbie Ovayle, Sowen Hoarts, Jaiabad. Socks.
Up, On Edge, Sillery's Kinght, Redden, Laske,
Floho, Sartalias, Kinght Gory, Banoco,
Hillsdown Gold, Secret Gill, Icen, Haven Cool,
Jondale, Dancing Devil, Polly's Brother,
Fandangle, Bold Image, Wingri, Christman
Cottage, Piercourt, St Pedro, Ardoony,
Majestic Nurse, Molon Lave, African Pearl,
Bahalion, Flightly Friend

Uncle Bing's Aintree aim Uncle Bing, who won the

Topham Trophy two seasons ago,—
has been entered for the Grand,
National and his trainer, Richard
Head, helieves he could be the
first. 13-year old, since Sergeant
Murphy in 1923, to lift the great

Uncle Bing was getting near to race fitness before the freeze up and Head's concern about this spectacular jumper is the limited time before the National. "It's increasingly difficult to plan a comeback race, but his target is definitely Liverpool", he said.

His stable companion Border Incident is likely to run in Doncaster's Great Yarkshire

Growing benefits from strong sponsorship

Hunt racing is leaping ahead

Of the 139 hunter steeple-chases scheduled for this season, which starts on February 1, the which starts on February 1, the prize money for 39 is being donated wholly, or in part, by sponsors. These 39 include 14 qualifying races for the Land Rover Champion Hunter Steeplechase at Cheltenham on May 5. Land Rover Distributors have given £5,000 of the £6,000 added money for this final, but the 14 qualifying hunter steeplechases are each individually sponsored by different firms, 10 of which are putting up the entire prize money for the races named after them.

The coveted Foxhunter Steeplechases, at Cheltenham and

The coveted Foxhunter Steeplechases, at Cheltenham and Liverpool, are again spousored by Christies Ltd (Fine Art auctioneers) and Haig Whisky respectively, while Horse and Hound is continuing its long-standing spousorship of the Final Champion Hunters' Steeplechase for the Horse and Hound Cup at Stratford on June 5, the last day of the season.

Stratford on June 5, the last day of the season.

The TKM Group is this year the joint spousor, with Christies South Kensington Ltd, of the gentlemen's and ladies' championships at Chepstow on May 12, for which horses qualify by finishing first or second in selected men's and women's open races, at point-to-point meetings faces at point-to-point meetings all over the country.

Ready Mixed Concrete, which sponsors several novice hunter steeplechases under rules, re-cently announced the launching of a new RMC Group Magnum Championship for the 1982 pointto-point season. It will present a magnum of champagne and a trophy to the winning riders to two selected races (generally opens) at 28 point-to-point meetings, and £50 to each of the host hunts, a particularly welcome feature. opens) at 28 point-to-point meetings, and f50 to each of the bost hunts, a particularly welcome feature.

Horses finishing in the first with £5,000 added to stakes, will four in any of these 56 races will also be run on May 31, at score points to carry forward to Wetherby. Qualifiers must be

the championship final at the Point-to-Point Owners' Association meeting, which is also being sponsored entirely by Ready Mixed Concrete, at Kingston Blount on May 6.

The Sean Graham organization, a bin sponsor of National Hung. a big sponsor of National Hunt racing, has agreed to continue its

point-to-point area novice cham-pionships in 1982. In each of the 14 regions the owner of the leading five, six or seven-year-old horse will receive an engraved Stuart crystal bowl and a cash award, and there will also be er-up awards.

An interesting new hunt racing sponsor this year is Sametrac, the distribution company for SAME, an old established Italian private company which is the sixth largest manufacturer of sixth largest manufacturer of tractors in the Western world. Sametrac is spousoring 28 point-to-point races, each with £150 prize money (the maximum permitted) and trophies. The Italian firm is also contributing £2,250 towards the £4,000 prize money for the SAME Tractors hunter steeplechase at Stratford on May 21. on May 21.

Vaux Breweries are again sponsoring a Northern point-to-point championship and have donated half the added money for the final a three mile huytor the final, a three-mile hunter steeplechase at Sedgefield on May 28. To qualify horses must have won or been placed in a Vaux or Swallow Hotels restricted open race at specified Northern point-to-point meet-

ings.

Another point-to-point series for which restricted opens are the qualifying races is sponsored by Dalgety Spillers, with a hunter steeplechase final at Huntingdon on the spring Bank holiday.

maidens (point-to-point races included) at the start of the season, but must have won or been placed in one of 40 specified. point-to-point maiden races rui

before May 9.

The conditions for another novice championship, sponsored by Jackson-Stops and Staff, are unusual in that the borses eligible have already qualified by having won or been placed in one of the qualifying races run in the 1981 season. The final will be decided at Towcester on Easter Saturday. As well as the Christies-TKM

n:p

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series, women riders have 3 second point-to-point championship. sponsored by Albright Wilson, the final of which takes place at the Melton Kunt Club meeting at Garthorpe on May 22.

In the South Midlands point-topoint area the champagne farm,
Taittinger, is again sponsoring
three championships with a
points system of scoring. The
leading owner, leading lady rider
and leading gentleman rider will
each win a case of Taittinger champagne, and there will be bottles for those finishing second and third in each category. These prizes will be awarded at the final meeting of the area at Kingston Blount on May 13.

The point-to-point owners' association recently announced that the amount of sponsoring available for the sport in 1982 is nearly double that of last season. This is most gratifying at a time when much sporting sourcecisin when much sporting sponsorship has been withdrawn owing to the

economic climate.

Nor is it only the sport and hunts that benefit. As a result of its highly successful point-to-point in 1981, the Association S presenting £2.500 to the Injured Jockeys fund, £1.250 to the Hunt Servants' Benefit society, £1.250 to the Paraplegic Sports Society and £500 to the Imperial Cancer Research fund.

Ian Reid

Salmon leap but the rents stay low

By Conrad Voss Bark Fishing Correspondent It would be a foolish man who

It would be a foolish man who would make any forecasts as to what the salmon season is likely to be this spring but the odds are, to judge from the amount of snow on the hills, that it could be a lot better than last. Pessimists might well say it could hardly be worse, but let that pass.

One encouraging sign is that from the reports coming in, and in spite of double-figure inflation, rents of the best beats are being held compactable law. from the reports coming in, and in spite of double-figure inflation, rents of the best beats are being held remarkably low.

Strutt and Parker, have the opening four weeks of the season to let on the Easter Elchies beat of the Spey, one of the best on the river, with two gillies provided, for four rods. The fishing in February costs £11.50 a day for each rod and in March £17.50, both figures including VAT. VAT.
Tenants stay at the Gordon

Arms Hotel at Fochabers, which costs £140 for the week, including VAT. Easter Elchies

can produce some very heavy springers when conditions are right. The Craigellachie Hotel also has good water on the Spey, which gave 263 fish last year to hotel guests. hotel guests.

It is interesting that good trout fishing on the Test costs considerably more nowadays than a good salmon beat in northern Scotland, though of course transport (£70 worth of petrol) and hotel costs tip the balance.

Buying good salmon and sea trout fishing is another matter. Savills of York say that even in these recessionay days the demand still exceeds the supply. Little Black Hall at Bandiory on the Dee sold at £1,800 per fish for double bank fishing. Culter, an early spring best on the Dee, made £1,700 a fish. The Carham beat on the Tweed, again double bank, went for the same figure. A Sutherland space river, the Dionard, made E300,000 plus for six and a half miles, including 4,000 acres of hill ground and a

lodge, which Savills work out at approximately £500 per sea trout and £1,500 per salmon. At the other end of the scale At the other end of the scale there is some very pleasant fly fishing for loch trout from Triroran House on the island of Mull, which is merely f1 or so a day, a bit more for the sea trout in the sea pools.

For students on grants there is still free sea trout fishing to be had if one walks the coast of Kintyre, a rewarding adventure for the young and strong who carry a rod and a few files in their packs. Salmon, no, but sea trout taste as good, especially cooked over a driftwood fire of

No cross-country

Warsaw, Jan 13. — The Polish Athletic Association have decided not to stage this year's world cross-country champiouships, scheduled for March 21 in Warsaw, the Polish news agrocy PAP reported today. — Reuser.



one of their early moves was to appoint the union's first full-time coach, whose job was to coordinate and oversee coaching at club level and to bring the national squad through to the stage where they could compete on reasonably even terms with other leading badminton-playing countries. Allan Campbell, a 35-year-old Glasgow University history and economics graduate and a teacher of history and modern studies at a Dunbartonshire school, did

at a Dimogration of the most of the union what they already to the union what they already knew; that a minor sport which had languished for most of the union what they already knew; that a minor sport which had languished for most of the century could not be rescued in

He was nervous before the Thomas Cup quarter-final tie in the Netherlands. The Dutch are more than competent on court, and when Scotland arrived they victory in the Netherlands.



Instead the Scots startled the Dutch and the badminton world by taking the tie 9-0 in their most harlem and pass it on to the players, the Danes will recross the Morth Sea knowing at least that they have had to fight and with a new respect for Scottish badminton.

Although Campbell believes in physical fitness, the honing of technical skills and plenty of match practice, he is certain that

Campbell's main hobby at ability and in that of their school and university was music: teammates, they are as good as a point or two ahead before the his father was a professional musician and he played the violin and led the university orchestra. He hardly knew what a badmin-ton racket was until his last year at Glasgow, when he took up the game to get some exercise. Soon after he left university, however, he was asked to help to coach some youngsters and agreed to have a go have a go.
"So there I was, never having

played the game properly, telling others how to do it", he said. "Some would see that as a big disadvantage, almost an impertinence, but honestly I didn't find it a handicap.

"It made me think much more about the game. And that's one

"It made me think much more about the game. And that's one of our problems. Not enough players think deeply about what they are doing. They have lots of ability and are very fit, but they just go out there and hit the shuttle."

shuttle."

A big problem Campbell has faced since his appointment is the reluctance of many players in Scotland to accept coaching as an integral part of the game. He said: "The very best, like Billy Gilliand and Dan Travers, know the real value of good coaching, but too many don't and don't want to. That outlook is changing, but it will take time to filter through.

Campbell is concerned about

Campbell is concerned about the difficulty of retaining indi-viduality among his best players (including the women, and not just the Thomas Cup team) but at just the Thomas Cup team) but at the same time encouraging them to support each other.

"In this respect Scottish badminton sides are the same as Scottish soccer sides", he said. "They contain some of the best individual players in the British Isles, but all too often they fail to combine well as a team. I am trying to stop my players having doubts about themselves and each other and criticizing each other.

other.
"Believe me, it's not easy because no one has ever done this before, but I am developing the team approach slowly and at the same time getting rid of players' insistence that they are the underdogs. If they go on court confident in their own

Campbell, who has held the coaching job for 15 months, spent much of a busy 1981 in research and study. He said: "It has become obvious to me that there is a great deal of stress in

inton in Scotland, especially badminton in Scotland, especially in two areas.

"First, the highly ranked player who has become accepted as the best in Scotland or in a district can suddenly be beaten and the shock can be considerable. This can lead to a situation which the player finds difficult to control or even accept, which in turn leads to stress, poorer turn leads to stress, poorer performances and still more

"Second, the very young player who is beginning to make an impression at national level often feels he is playing for his coach or his parents and is afraid of letting them down by losing. This fear leads to a build-up of stress, which again affects performances and produces the very thing the youngster wanted to avoid."

Campbell believes there are six Compbell believes there are six ways to help to reduce stress, be better prepared for competition, and win matches: the deliberate

introduction of elements such as noise, bad line calls and cheating during practice sessions; the use of physical relaxation techniques; of physical relaxation techniques; stress management training; imagery or mental rehearsal; constantly reminding oneself of one's ability rather than inability; and satisfying psychological needs, such as carrying a mascot. He does not suggest that the player with no basic ability will prayer with no basic ability win ever reach competition, let alone international level, by changing his mental approach. What he does say, with increasing convic-tion; is that those who are good can become even better if they learn how to link the physical with the mental This may not be with the mental. This may not be enough to see Scotland through against the powerful Danes, but it does look like being the start of 2 new era in Scottish bedminton.

Iain Mackenzie

World Cup today.
Miss Alderman's 117 included

Perryman moves

Middlesex have appointed Alan Middlesex have appointed Alan Wright as club secretary, Wright, 43, has been a Middlesex member since 1975. He will be leaving his job as passenger marketing manager for British Airways, where he has worked for 27

Book review

Companion for Sunday

rain.
Somehow, though, they have been able to assemble an informative and attractive pro-

colours, and Kourad Bartelski,
Samuel himself makes a
number of telling contributions,
as befits a man who is, arguably
(and he would relish the
argument) the leading exponent
in the field in this country. Dare
I suggest that his telling should
extend to teaching the BBC
reporters the facts of Alpine life?
They seem unaware of the fact
that, although the world championships as such are held every
four years, the Winter Olympics
serve the same purpose. To us,

by the BBC at £4.50.

المكذا من الأصل

THE TIMES THURSDAY JANUARY 14 1982

(UNIVERSITY OF LONDON)

SECRETARY

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Regents Park.

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NOTICE

also on page 20

John Woodcock's Letter from Australia

Rivalries in the market place

فكذا لمن الاصل

When the Wallabies rugby union team returned to Australia today after their tour of the British Isles they faced a barrage of questions aimed at uncovering the division which had been expected to have existed between reported to have existed between the Queenslanders in the party and those from New South and those from New South Wales. Needless to say, their ranks were closed. In many ways, though, inter-state rivalries are as essential a part of life in Australia as those in England between the red rose and the white.

Whether this manifested itself during the Wellabies tour and undermined their play, I have no idea. What may be of some general interest in England is the hattle that is forever being fought in Australia for the footballing market.

In Victoria the game Australian Rules, a spectacular exercise in kicking and marking, dwarfs all else. It resembles Gaelic football more than any of the other codes, probably because of the Irish influence that was prevalent in the goldmining areas of Victoria in the middle of the last century.

The two high days of the Australian sporting calendar—unless a Test series against England or West Indies is reaching an exciting climax—are the last Saturday in September which is set aside for the Grand Final of the Victorian Football Learner planed Libraths. League played, like the FA cup final, before 100,000 people on the Melbourne cricket ground, and the first Tuesday in November when the Melbourne Cup is

In Western Australia, South Australia and Tasmania, as in Victoria, for every boy who plays Rugby Union twenty play Australian Rules. Of Rugby League, in these same four states, there is victually none—no more than in virtually none — no more than in Corowali or Kent.

New South Wales is the chief stronghold of Rugby League and Queensland of Rugby Union. Just as in Melbourne the sports pages are taken over during the football season by Australian Rules. In Sydney the headlines are made by Rugby League and in Brisbane by Rugby Union.

Considering how little Rugby Union is played in the country, it seems remarkable that Australia can give the All Blacks a game.

can give the Ali Blacks a game, let alone beat them, and come as near as they did to carrying off the Grand Slam in Britain. All they needed, as I understand it, was someone to kick them some

The game I have not mentioned, but whose spread is as inevitable as in most other countries of the world, is soccer, under the immigrant influence, under the immigrant influence, which until recently has been mainly European; soccer, even in Australia, is now played, or played at, more extensively than any of the other types of football.

Parents, deterred by sports in which body contact plays a larger part, are coming round to favouring Association Football.



An Antipodean version of Gaelic football, Australian Rules, is a spectacular and often violent game. This vociferous player makes the use of his lanky opponent's shoulder to

ing of a soccer branch.

Despite that, it is catching on, especially in Melbourne, a city with a large Greek-speaking community. And Greeks love their football. When later today I take this message to the cable office, the chances of my getting a native Australian as a taxi driver will be something like four to one against. Yesterday I was taken to the Sydney cricket ground by a Lebanese and brought back by a Hungarian. From the airport the day before my driver was from Sumatra. One of the advantages of soccer is that it is a language they can is that it is a language they can

In Sydney at the moment are two officials of the Victorian Football-League who have come here to make arrangements for

fear of competition, Rules, members of the VFL, to play matches, to be played on League and Union clubs do nothing to encourage the opening of a soccer branch.

March on the Sydney cricket games, the best paid in Australia.

It is a move that has met with strong resistance, not only from the older members of South Melbourne, but from the devotees of Rugby League and Rugby Union in Sydney. If it is a success the same thing may be tried on the Woolloongabba Ground where the Tests are

The purpose is threefold, to spread the gospel of Australian Rules, resist the advancing tide of soccer and improve South Melbourne's financial position. It s hoped that there may eventually be enough expatriate Victo-rians living in Sydney — and one day in Brisbane — to start clubs Football-League who have come here to make arrangements for of South Melbourne they will be South Melbourne, one of the 12 able to watch their "home"

are the top cricketers, who, while they keep their place in the Test side, may earn £50,000 a year, and probably more. From the testimonial which he is now having, Dennis Lillee is expected to collect £250,000.

Australian Rules footballers — a dozen or so of them in Melbourne — come next with around £30,000, and they mostly have other jobs as well. Rugby League would follow them, much of the revenue here coming from the phenomenal popularity of poker machines.

Of the Wallabies who landed in Sydney this morning, some will soon be induced to switch to Rugby League, a dequiding of the ranks which happens annually, and makes Australia's success in the rugby union world all the more commendable.

Law Report January 14 1982 Court of Appeal

Rules in Act supersede bill of lading

Before Lord Denning, Master of the Rolls, Lord Justice Shaw and Lord Justice Ackner

[Judgment delivered January 13] In all courts of the United Kingdom, the Hague-Visby Rules had coercive force of law by section 1(2) of the Carriage of Goods by Sea Act 1971 and had supremacy over every other provision of the bill of lading.

Section 1 of the 1971 Act provides: "(2) The provisions of the rules, as set out in the schedule to this Act, shall have the force of law." In all courts of the United

schedule to this Act, shall have the force of law."

The Court of Appeal in reserved judgments allowed an appeal by plaintiffs, the owners of cargo lately laden on board the ship Morviken, against Mr Justice Sheen's order of June 26, 1980 (1981) 2 Lloyd's Rep 61) that all further proceedings in that all further proceedings in their Admiralty action against the owners of the ship Hollandia

be stayed.

The cargo owners claimed damages for breach of contract and for negligence in and about the loading, handling, custody, care and discharge of the plaintiffs' cargo and its carriage on board the Morviken in 1978. Leave to appeal to the House of Lords was granted.

be stayed.

Article X of the rules in the schedule of the 1971 Act provides: "The provisions of these rules shall apply to every bill of lading relating to the carriage of goods between ports in different states if: (a) the bill of lading is issued in a of lading is issued in a contracting state, or (b) the carriage is from a port in a contracting state... whatever contracting state whatever may be the nationality of the ship, the carrier, the shipper, the consignee, or any other inter-

Mr John Hobhouse, QC and Mr Michael Dean, QC for the plaintiff cargo owners; Mr Johan Steyn, QC and Mr Angus Glennie

Lord Lane, Lord Chief Justice, in the Court of Appeal (Criminal Division) on January 12 handed

down a practice direction which he had given at the request of Lord Hailsham of St Marylebone,

Lord Chancellor. The practice direction, which concerned the mode of addressing circuit

indges, recorders, deputy circuit judges and assistant recorders and the titles to be used on cause lists, forms and orders from

Practice Direction

January 1, stated:

said that in March 1978 an English company shipped at Leith in Scotland a big machine for use in road work. It was for carriage to Bonaire in the Dutch

carriage to Bonaire in the Dutch West Indies.

It was loaded on a Dutch vessel for carriage to Amsterdam where it was transhipped to a Norwegian ship, the Morviken, for carriage to Bonaire, where on being discharged it was dropped on to the quay and damaged to an amount put at about 122,000. Following the arrest of the shipowners' vessel, the Hollandia, in a United Kingdom port, the cargo owners sued the shipowners for damages. The Hollandia was released and the action by the cargo owners against the shipowners proceeded.

against the shipowners proceeded.

There was a clause in the bill of lading which said that it was governed by Dutch law and that any action was to brought in the courts of Amsterdam. The courts courts of Amsterdam. The courts here applied the Carriage of Goods by Sea Act 1971 under which the limit of liability for the machine was £11,491.

The courts of Amsterdam applied the old Hague Rules under which the limit of the liability for the machine was about £250. So if the action were

stayed, it would not be worth while for the cargo owners to sue in the Amsterdam courts.

The judge ordered a stay saying that the cargo owners were bound by the clause in the bill of lading and could not sue here. The carriers said that under English law that clause were null and rold. was null and void.

If the action had arisen before the 1971 Act came into force, English courts would have given effect to the clause in the bill of lading. But the case arose under the 1971 Act.

In the interests of international trade it was very desirable that ail international carriage of clause 2 of the bill of lading goods should be subject to the same terms and conditions. The law and the old Hague Rules and

judges and assistant recorders

should be addressed as "Your

Honour" when sitting in court.

3 In cause lists, forms and orders

Mode of addressing

judges in court

But the Hague-Visby Rules had not yet been implemented in

olland. The 1971 Act made far-reaching

Holland.
The 1971 Act made far-reaching reforms. By section 1 (2) the rules set out in the schedule had the force of law. That meant that in all courts of the United Kingdom, the provisions of the rules were to be given the coercive force of law and were to be given supremacy over every other provision of the bill of lading.

There was to be no contracting out of the rules. Notwithstanding any clause in the bill of lading to the contrary, the provision of the rules were to be paramount.

There was a parallel in European Community law. Whenever there was a conflict or inconsistency between the law in any article of the EEC Treaty, and the internal law of the member state, the law of the community prevailed: see Shields of E. Coomes (Holdings) Ltd (1978] 1 WLR 1408, 1414).

Article X of the rules in the Article X of the rules in the 1971 Act gave far wider jurisdiction to the United Kingdom courts than did the 1924 Act. The article with the concluding words "whatever may be the nationality of the ship, the carrier..." showed that the provisions of the Article III, rule 8 of the rules, which had been in the old Hague Rules, said that "any clause ... lessening ... liability otherwise than as provided in these rules, shall be util and void and of no effect". So in so far as clause 2 of the bill of lading which incorporated the Dutch

The MASTER OF THE ROLLS and that in March 1978 an angle in the carriage of Goods by Sea Act 1924 tried to get to the small amount in the old by Sea Act 1924 tried to get to the small amount in the old by Sea Act 1924 tried to get to the small amount in the old by Sea Act 1924 tried to get to the small amount in the old by Sea Act 1924 tried to get to the small amount in the old large Rules was also null and word. It was for sea and in 1968 they were amended by a protocol tried by Sea Act 1924 tried to get to the small amount in the old large Rules was also null and word. It was loaded on a Dutch vessel or carriage to Amsterdam where the standard standard in the public policy to be considered to the small amount in the old large Rules was also null and word. It was loaded on a Dutch vessel or carriage to Amsterdam where the liability of the carrier to the small amount in the old large Rules was also null and word. It was loaded on a Dutch vessel or carriage to Amsterdam where the liability of the carrier to the small amount in the old large Rules was also null and word. It was loaded to a Dutch vessel or carriage to Amsterdam where the lague-Visby Rules. They were implemented in protocol tries and the lague-Visby Rules. They were implemented to the lague Rules was also null and word. trade all goods carried by sea should be subject to uniform rules governing the rights and liabilities, and the limitation of liability, of the parties. They should not vary according to the particular country or place where the dispute was tried.

Clause 2 of the bill of lading was null and void in proceedings in the United Kingdom courts. The action should not be stayed but proceed with the limit of liability prescribed by the Hague-Visby Rules.

The appeal should be allowed.

LORD JUSTICE SHAW, agreeing, said that the uniform application of the Hague-Visby Rules adopted by the 1971 Act was designed to provide a commercially equitable basis for determining the rights and liabilities of parties to mercantile transactions involving carriage of goods by sea. Contracting out, either direct or indirect, was inhibited by the objectives as well as by the terms of the Act and the protocol.

LORD JUSTICE ACKNER also agreeing, said that textbook writers differed as to whether the carrier could contract out of the rules scheduled to the 1971 Act by selecting some other law as the proper law of the contract. His Lordship concluded that since in the present case the bill of lading clearly feil within categories (a) and (b) of Article X the carrier was not entitled to contract out of the rules by selecting a law which did not administer those rules. Solicitors: Clyde & Co; Middle-

Off-premises reason for refusing licences valid

Justices could lawfully refuse to renew a dancing singing and music licence not because of any

mistr neence not occause of any misconduct in the management of the establishment but because of the behaviour of its customers when they had left the premises, Mr Justice Hodgson held in the Queen's Bench Division on January 11.

High Court" should be added); (b) recorders, as "Mr (or Mrs) Recorder B". This style is appropriate irrespective of any honour or title which the recorder might possess, but if in any case it is desired to include an honour or title, the alternative description "Sir CD, Recorder" may be used; (c) deputy circuit judges, as "His (or Her) Honour EF, sitting as a deputy circuit judge"; (d) assistant recorders, as "Mr (or Mrs, Miss or other title) GH, sitting as an assistant HIS LORDSHIP said that it had such a way as to cause a breach of the peace but that, however well run, the effect of extending the normal drinking hour of 11 pm in public houses to 1 am in

they had left the premises.

In such circumstances, justices on such grounds as the remote-ness from police supervision and dence as to the effect on the character of the locality of the to renew the licences.

the discotheques was to affect some of the discotheque cus-tomers in such a way that they behaved in an atrocious way after

could within their discretion, refuse to renew a licence. In Sharp v Wakefield ([1891] AC 173) there had been no suggestion that there had been anything wrong with the way in which the premises had been run, but the House of Lords had no difficulty in deciding that it was within the administrative discretion of the justices to refuse renewal. The decision in that case that justices could refuse to renew a licence the character and necessities of the locality and neighbourhood in which the premises were situated was conclusive, and there had been abundant evi-

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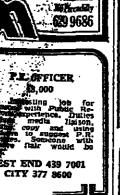
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foldings; Limited and others, the
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terlocutor on Friday, 8th January. RENFREW DISTRICT COUNCIL 21,500,000 bis. bassed 151,82 maturing 14.4.82 or 14.19/32% and there are £1,500,000 bis. outstanding. CRTY OF SMEFFIELD BILLS 120.35m issued 6-1-82 matur-ing 7-4-82 m 14.47,63. Total Applications £112.75m. Bills out-standing £20.35m

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Now, just eight years later, another major reorganization is about to take place. It aims to slim down the bureaucracy by removing the area health authorities of which there are 98 in England and Wales. Administrative jobs will certainly go, although the Government is not prepared to commit itself to a figure but once the retain. figure, but once the initial upheaval and uncertainty is over there will, in theory, be good career opportunities for skilled administrators.

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UNIVERSITY

With more than 800,000 jobs in general administra. Health Care Information and

the money it spends and in the service it offers.

Much of this growth came about when the NHS was reorganized in 1974. A three-tier management system comprising district tant personnel officer, and regional health authorities and regional health authorities was introduced and it has been the subject of harsh ment level includes the companied composts of regional personnel CIPFA qualification, he or two GCEs at O-level.

The usual path is from the NHS also takes the initial training period trainee accountants who into a fundor management then go on to study for the post, such as assistant hos professional examinations pital administrator or assist of the Chartered Institute than by relevant job experience and two GCEs at O-level.

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for skilled administrators. The main professional common Services Agenty, trative talent back into unit management where it will be directly responsible for large numbers of staff and sums of money.

Direct entrants into the NHS, usually graduates or school-leavers, go on to the Institute of Health Service Administrators. This could administrators and the Institute of Health Service Administrators. This could be a degree, two GCEs at Alevel or being over 21 such as five GCE passes in service in the NHS or a related job.

During the first 15

The main professional Scottish Health Service, Common Services Agenty, Common Services Agenty, was also described for health service administrators, and the one which trainees normally training Division, Crewe Road South, Edinburgh EH4

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Once the trainee gets the CIPFA qualification, he or posts of regional personnel CIPFA qualification, he or officer, assistant regional she can then go on to study for further qualification, he or administrator or manage services officer. Too man agement posts, which carry a salary of up to £21,000 a year, are those of regional or district administrator.

The other main methods of entry into the NHS are from other parts of the public sector or from industry into specialist areas such as personnel, purchasing, laundry or catering thouse, SE1 6TE.

management. House, SEI 6TE.

The main professional Scottish Health Service, qualification for health ser-

Sandra Hempel months trainers receive a information technology have combination of courses and caused increasing concern Last week's article, on work experience in different about the storage and retrie-administrative careers in areas of the NHS. Then val of confidential informal local government, was also they are put into selected tion. The Association of by Sandra Hempel.

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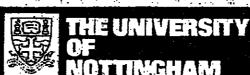
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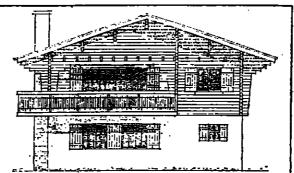
with the retirement in the Spring of the present

Borough Secretary, Mr. L. C. Alexander) the Council is seeking a person of proven ability,

qualification and experience as their new

A salary of not less than £22,500 (excluding allowances) is offered.

This is a new Directorate (one of six) with responsibility for the Council's legal, administrative, committee, personnel and common services. The Directors will form the top management team, each with wide spheres of responsibility, who, with the Chief Executive will provide an efficient organisation for the effective implementation of the Council's policy. Persons able to demonstrate a successful record of achievement at top management level with extensive relevant experience are invited to apply for further particulars and application form from the Chief Executive, London Borough of Redbridge, Town Hall, High Road, Ilford, Essex, to be returned by 29 January.



We are a Finnish log house factory with 15 years experi-ence in the manufacture of log-built dwelling houses. Holiday cabins, dubhouses, coffee shops and restaurants are also part of our range. About 90% of what we produce is for the export market. The chief countries to which we export are the Federal Republic of Germany, Belgium, Austria, France

Our sales abroad are based on a network of agents in various countries. In order to strengthen our share of the Bonsh market, we are now looking for a

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DEVON AND CORNWALL POLICE AUTHORITY APPOINTMENT OF CHIEF CONSTABLE

Applications are invited from officers holding the substantive rank of at least Deputy Chief Con-stable or Deputy Assistant Commissioner for the post of Chief Constable of the Devon and Cornwall Constabulary, which will become vacant on

Application forms and further particulars may be obtained from the Clerk, Devon and Cornwall Police Authority, County Hall, Exeter, telephone

Completed applications must be returned by 2nd

Action on Smoking

and Health

ASH, the campaign fighting Britain's largest preventable cause of death and disease, is looking for a Projects Officer. The successful candidate will be a careful and thorough worker who will also have flexibility and an ability to work with others. A background in campaigning or research might be useful. For details and an application form write or telephone:

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Recruitment opportunities is featured every THURSDAY for details please ring

01-278-9161

haumen

SEVERN-TRENT, NORTHLIMBRIAN & WESSEX WATER AUTHORITIES

The Secretary of State for the Environment will be appointing Chairmen for these Water Authorities to take over from the existing Chairmen when their terms of office expire in September 1982. Annual expenditure in Severn-Trent is around £400m and in each of the other two exceeds £100m.

OVERALL POLICY AND STRATEGY are laid down by the members of the Authority headed by the Chairman, one of whose principal tasks is to ensure that the essential services provided to the community are cost-effective and seen to be so. Under the direction of the Authority, day-to-day management is in the hands of a full-time Chief Executive and his team.

DEMONSTRABLE MANAGEMENT SKILLS and the proven ability to perform a representational role involving the public, industry, agriculture and government are essential requirements. These attributes will probably have been acquired in a senior role within a large organisation, public or private. Preference will be given to candidates who know the area well

 THE APPOINTMENTS will be for 3 to 5 years. The salary for the Severn-Trent Chairmanship is £24,980 and for the other two posts £13,679, which reflects their part-time nature and relative dimensions. Preferred

Those men or women who wish to be considered are invited to write in complete confidence to D.A.O. Davies as adviser to the Department of the Environment.

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degree course.

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d beyond early in their career.
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To Supt. John M. Adams B.A., Room 556, Home Office, Queen Arme's Gate, London SHITH 9RT.

Please send me your booklet and application form.

University/Polytechnic/College

You must also be under thirty and

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meet the physical requirements.

career, and salary levels, contact your Careers Adviser or send in this

coupon. But don't delay.

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Chief Nursing Officer

The Department of Health and Social Security is seeking a successor to Dame Phyllis Friend, DBE, who will be retiring from the public service at the end of September. As Chief Nursing Officer she is responsible for advising the service and service and service and service and service services. the Secretary of State on all matters relating to nursing, midwifery and health visiting, and contributes to the formulation and implementation of national policies. The work of the Nursing Division, comprising some 50 senior nursing professionals and their support staff, covers all aspects of hospital and primary health care services, capital and service planning, and matters relating to nursing personnel nurse education and research.

The Chief Nursing Officer is expected to monitor the scale and provision of nursing services in this country and to be aware of trends in

nursing both at home and overseas. Close relationships are maintained with statutory professional and staff organisations. There will be some travel at home end abroad.

be registered nurses, preferably aged under 55, and must have shown out-standing ability in a top-level nursing position, Excellent personal, communication and leadership skills will be looked for. Experience of serving on national committees would be advan-

The salary for this Civil Service der Secretary-graded post is £23,000 +

\$23,000 +.

For intriner information and an application form (to be returned by 12 February 1982) write to Civil Service Commission. Alencon Link, Basingstoke, Hants RG21 1JB, or telephone Basingstoke (0256) 68551 (answering sorvice operates outside office hours), Please quote re: G/5682/4.

Department of Health and Social Security

ASSOCIATE EDITOR (CHANNEL 4)

Independent Television News is to provide Channel 4 with a midevening news and news analysis programme each weekday. This will be the first hour-long news programme seen on British television and aims to provide a new and distinctive service of news background, explanation and analysis, together with a broadening of the subject areas of news coverage.

Applications are invited for the post of Associate Editor (Channel 4) who will be responsible to the Editor of ITN for the successful development and operation of the programme. The Associate Editor will be part of the Senior Management of ITN and the role will require a combination of journalistic, television and management skills of a high order and will be remunerated accordingly.

Applications, including a full curriculum vitae, should be made to David Nicholas, Editor and Chief Executive, ITN, ITN House, 48 Wells Street, London W1P 4DE.

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ATOL 433

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BELOVED, now are we the one of God, and it doth not the work of the other what we shall be the mail appear, we shall be like that, for we shall see Him as it, in—! St. John 5-2.	CARGE. The fances of Gwen-	HOLIDAYS
nall appear, we shall be like	CAROE.—The funcion of Gwen- dolen Mary Caroe will be at St., Bartholomow-th-Great, West Smithtied, E. C., at 2 p.m., on Tucaday, 19th January, Flowers to J. H. Kenyon & Westbourne Grove, W.2. or brought to the service.	SKI S
	Crove. W.2. or proposit to the	BLADO
BIRTHS BAILEY.—On Loth November, 1921, 19 hagein the Mould's end Simon—a ton Daniel Alexander berther.	MacDONALD.—Due to travelling conditions the cramation previously arranged for Yrome tactionald at Perth, on Thursday, January 14th, will now take place at 11 d.m., Saturday, January 16th.	We have som our haury sta our budget o
itarori	cay. January 11th, will now take place at 11 a.m., Saurday, January 16th.	Cournayeur Argentiere Verbier
Johannesburg to Eleanor ince Beam; and Hodney—a daughter Maranda.	MEMORIAL SERVICES	Val d'Iscre Meribel Zermatt Hotels and s
Joanne, wife of John, a long	MEMORIAL SERVICES BERENS.—1 Memorial Service of Thanksniving for the Rr. of Cetil Berens will be held at 12.00 noon on Wednesday. 20th Januari. 1992. at St. Michael's. Macanilli.	ava Gatwick. (Manches
Artion); a brather for Lucke and Louise: Deo Gratta. Mill—Om January 10th at 5t. Thomas Hospital to Hillary and Christopher, a son (Adrian		BLADO
Hugh: On 9th January to Francisca (nee Williams: and	Signed Surrey on Friday Sander- February at noon.	TRA 309 Brom London
Thomas Handler and Christopher, a son (Advantage Hugh). Hugh: HORSFIELD.—On 9th January to Francesca (nee Williams and Gordon, a son (Joshus Witherland) John; a brother for Victoria, John; a brother for Victoria, 27 Webbeh, St. to Honga theology of the Christopher Carlotte (1988). KIRK.—On 10th January at John Radeline Oxford to John and Macco-Christopher Carlotte (John and Macco-Christopher).	COUNTIL MAY NOTICE IN MEMORY OF GOVERNMENT MAY MAY WILL BE HERE SENDE COUNTY SANCET SANCET SENDE	Tel: 01-
Americanour and Liurie — a chistopher Telmour; at John	11.30 a.m., 28th. 1982. a:	AUSTR
	IN MEMORIAM LANGLANDS, GEORGE, — Died	immediate ser trorid's best than APEX is:
ar: 8 at Queen Charlotte's Hospital, to Elizabeth and Ritmend—a ten. LENMOX—CO 11th Lenue	LANGLANDS GEORGE — Died January 12, 1577. So beloved and so easily missed.—Luz.	Off economy Sydney—M
Hospital do Elizabeth and Lessital do Elizabeth Eliz	ANNOUNCEMENTS	Plus the A ALSO: SPECI
Outer Charlotie's Hospital to Julia inse Wheaten and Clif- ford—a son (Alexander Langs)	Resista See For Sale CARPETS, 48 hr. fitting service.	REHO 15 New Ox Tel, 01-404
Mcellinery. On James 10th 10 Annie ince Theory and David — a daughter (Sarah	MOMEN DRIVERS Special Lloyd's Instrance, Northways 883 1210. WANTED Superior Algarye villa	UP, UP A
MURDOCH.—On Jamary 10, to Sally (nee Commings) and Gordon—a son (Alexander	Smilar N. Wales flet, any time. 063 087 3277. 2 GIRLS to crew barge, S. France.	Save on sched JO'BURG: F MONTEVIDEO
David Adaghter (Sarah Louise) And Campaings) and Gardon—1 Son (Alexander Stuart: a brother for Thomas. NEWMAN. — To Victoria (née Barrows) and Roger—2 damplage A: Queen Charlotte 5 Hospital on January the 11th Cowing Commission of the Cawley to Panela (nee Hasth) and Peter, a son (Alexander Francis). E brother for Emily. SCOTT.—On January 12-2 at Pembur: to Georgina (nee Rewland) and John—4 daughter (Charlotte Elizabeth) sister to Caracter State Commission of St	IRRESSTABLE CARPETS from Residia. See For Sale. GRESIA. See For Sale. See Resista in Fortuna service. See Resista in Fortuna service. See Resista in Fortuna service. Nomine Drivers Special Llord's insurance. Northways 883 1210. ANTED SUPPLY SPECIAL SECTION SECTION OF SECTION AND SECTION SECTION OF SECTION SECTION OF SECTIO	MONTEVIDEO CHELLES. BANCKOK, NA SINGAPORE.
January the 11th. ORWIN.—On 11th January to Crawley to Paniela (nee Heath)	64, New Bond Street, W.1. Call in or ring 01-629 1711.	CHELLES. BANGKOK. N. SINGAPORE. ALGIERS. LUS MANILA. BO ROME. AUST EUROpean capi
Francis). a brother for Emily. SCOTT.—On January 12-at Peta- burt in Georgina (non Row-	Consultants — See Rec Opps. AMERICAN Pinancial Magazine	FLY FLAMII 76 Shafteshu 01-139
Dur to decrepting (nee Rew. Charles Disbeth) Siler to Charles Disbeth) Siler to Victors on 11th January to Flora and Charles—a second son (Henry).	requires Anterusing bases per-	Open S
Flona and Charles—a second son (Henry)	MOLLY, DONALD GROSVENOR, an old friend from Hong Kong wishes to know where you are. 01-794, 8697.	CITY B
MARRIAGES RUBY WEDDING	CLUB ANNOUNCEMENT	FLIGH Paris Amsterdam
LOVE: SERESPORD-PERSS.— da 1-th January, 1942, Peter es Anne, at St. Michael's, Almark, Prosent address Tamerton, Upton Lovell, Warminster.	ROYAL OVER-SEAS LEAGUE. Park Place. St. James's and	Brussels WITH 1 Ni B. Paris
Ainwick, Present address Tamer- ton, Upton Lovell, Warminster.	ROYAL OVER-SEAS LEAGUE. Park Place. St. James's and also at 100 Princes St. Edin- burgh. The elegant conference and banquet venues; Contact Banqueling Manager, 01-493	Amsterdam Brussels FALCON Ci
DEATHS BASKETT.—On Str. January 1982: peacofully, Elizabeth, of the Old buildes Roy slower Wheel and		01-351
Bristol, near Bridgwaler, Somerset, formerly of North	SPORT AND RECREATION	* SNOW * SN
Taunion Deane Crematorium on Friday 15th January at 1.30 pm. BENGOUGH, JUNE DUNKAM.—	WANTED.—Box for one day Reyal Ascot '82, with possibility of further single days at other meetings. Please sund details to Box 1144 G. The Thres.	INSTANT SKII Masses of variety of to
On January 12th, of 53 Sussex Square, London, w3, aged 78, after a year of liness, Cromation at 10 am this Spirite State of the Spirite Spirit		tariety of to ding Zermatt, cheval, Val d' and self-cateri
pactofuly. Elizabeth, of the Old include History and the Control include History and the Control include History and the Control include Deame Crematorium on Function Deame Crematorium On Jenuary 12th, of 50 Sensex Square, London w3, ged 78, after a year of thress, Cremation at 10 A.m. this Friday at the West London Crematorium, Cut flowers only, Inquiries: Kenyons U1.723 3277 BLYTH, PERCY WILLIAM.—Late of Haron Gerden and Caterium, peacefully at home on January 11th. Private cremation. Family flowers only.	MAJOR COMPANY wishes to rent box at Ascot for Royal Ascot week 1982.—Please repty Box 1059 G The Times ASCOT BOX WAMFED to Rent. icase or box.—Apply Hawkiey. 411/Plackmore 250 with large 411/Plackmore 250 with large 411/Plackmore 250 with large Allitre—Ascot. Brands Halch, winbledon ctc. Phone Moodles 10428 1310 for brochure and menus.	drive coach travel Call now for
of Halton Garden and Caterhan peaceinly at home on January 11th. Private cremation. Family	ASCOT BOX WANTED to Rent, lease or buy.—Apply Hawkley, 417 Blackmore 255.	SKI (0373)
peacefully in hospital Eric	adio ning Marques for hire at Aintree, Ascol. Brands Halch, Wimbledon clc. Phone Moodles	CORFU, CRE
Ridgel of I Risoden Clock- House, Hawkhurst, Kent, be- loved husband of Pam and father of Erica and Anne, Service at Goudhurst Catholic Church, Berestord Read on Fri- sky James I De at the Court of the Justice of the Court of the Authority Justice of the Court of the Authority of the Court	brochure and menus.	The Smaller I
Church, Beresford Road on Friday, January 18th at 11 a.m. followed by interment in Hawk-	SHORT LETS	Hotel Camp
hurs' cendery, flowers and caquiries to K. B. Sills. Funeral Directors. Crashrook 712:94. BROWN.—On 12th of January 1982. Joyce de Will, beloved wife of Jack and mother of Republished for Silvers Engels and Silvers.	INSTANT FLATS, Chaises, Linury serviced, Mr Page, 373-3433. 5, KEN,—Gorgeous gdn. flat. 2	Brochures on VENTURA 125 Alder Tel: 01-250 1 Or Tel: 10
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tale. SURTON.—On January 12th. 1982, after illuces, Mariella. of Paris House, East Mailing.	C.H. COI. 1V. phone. maid. 2135 p.w. 5/6 months + 573 0755 Sanday 17th. TENNIS CT. 4 bed. modern town house. 5W18. 25 Jan-25 Feb. 2175. p.w.—570 2458. C.H. Coi. TV. maid. 3 months + 570 p.w.—573 0763 Sanday 17th.	SKIERS. Jeannie guest, not 3
1992, after lilness, Mariella of Pans House. East Mailing, Funeral service at East Mailing, Farish Church on Monday. Saturny 8th bit of January at home. Mary 1. D of "Markins". Stoney Cross, near Lyndhurst.	col. TV. mald, 3 months +, 270 p.w.—373 0753 Sunday 17th.	guest, not a chairt in Vo and wine, atte breakfast, lea, £250 per for Other dates J
home, Mary I. D. of Mar- line Sioney Cross, near Lyndhurst.	HOLIDAYS AND VILLAS	
Lyndhurst. DAWES, C. A. W. (Bill).—Of Nount Ephraim, Faversham, Kent. on January 12th 1982, beloved husband, father and	SKI VAL D'ISERE, Inclusive holi-	CARACAS, MEX Latin America available. Joh gstablished W
grandfather. Funeral at St. Michael's Church, Herne Hill. Monday, 18th January at 2.50	SKI VAL D'ISERE, inclusive holl- days from £95 p.p. B/8 to £168 p.p. for luxury catered staffed chalct holidays inc 3 meals wine and colice. Sidval, O1-200 6080 (ATOL 1162).	Consultence, ABTA
DAWES. C. A. W. (Billi) — Of DAWES. C. A. W. (Billi) — Of DAWES. C. Ephreim. Favorsham beloved husband. Inthe and grandfather. Funcral at St. Michael's Church. Herne Hill. Monday. 18th January at 2.30 p.m. Family lowers only. ELLIMAN.—On January 12th at 61. Botyl Rd. Boloph. Claydon. Arthur Bernard, agod 64. Beloved husband of Lona and Adverse Lower at Jonath Monday. 18th January 1.20. HOLMES.—On January 11th. 1962. E. Arthur. MRCS. FRCP. beloved husband of the late Boty and dearly loved father of Peter. Anne and Bridget. Gramation at Casilord. Vassibury-on. Trymon at Casilord. Vassibury-on. Trymon at Casilord. Vassibury-on. Trymon Monday. 18th January 17th. OPE MORRIS. JOHN HAROLD.—On January 13th, peacefully in hospital, widower of Mary and beloved Isther of Caynor. Elizabeth Hobson. Funeral at Llawryglyn Powis, on Saturday at 2/30m. Family flowers on Saturday at bonne on her Roth-Birthday, wife of the late Surgeon Vice-Admiral Sir Kenneth Alexander-Ingleby Mackente, mother of Folicity and Colin. Funeral at Plunay Vale Crematorium on Monday 18th January 24 0.45 am. No tlowers by Latenty.—On January 11th 1992. Reserved.		SKI BARGAINS! 1 WK £159, board, travel
Beloved husband of Lena and father of Joanna and Jonathan. Cremation at Oxford on Monday. 18th January 21 30	COSTCUTTERS ON FLIGHTS/ HOLS to Europe, USA and 2h destas Diplomat Tt 01-731 2001 ABTA IATA, ATOL 1888.	938 1482. AT
HOLMES.—On January 11th. 1982. E. Arthur. MRCS. FRCP. beloved hasband of the late	EUROPEAN FLICHTS.—Euro-	Travel. 01-04
Heiry and dearly loved lather of Peter. Anne and Bridget, Croma- tion at Canford, Wosibury-on- Trym, on Monday, 18th January.	CHEER, UI-342 4013 (AIF AGIS).	ROME £89. Jo' Reef (0272)
at 2.40 p.m. No flowers please. HOPE MORRIS, JOHN HAROLD. —On January 15th, peacefully	J'BURG, SALISBURY, DURBAN, GT Air Agis, 01-754 3018/4508.	JUST Switzerlar Ltd., 01-379
and beloved lather of Gaynor. Elizabeth Hobson. Funeral at Lawryglyn Powrs. on Satur-	CHEAP FARES, world wide, Pan Express, 439 2944. Air Agis,	SKI DOLOMITE
day at 2.50pm, Family flowers only. INGLEBY - MACKENZIE: Violetta Floodie: on 12th January sud-	COURCHEVEL. 30 Jan. 20% off. 5,C apis from \$115 p.p. 1 we icc. fight. Houday Villas. Of- com 5000 (24)471 ABTA ATOL	catered chalet —Tel. 0272 DISCOVER ASI Katmandu and in Central and details: Em
denly at home on her ROth- Birthday, wife of the late Sur- geon Vice-Admiral Sir Kenneth	icc. flight. Holiday Villas, Ot- 600 5000 (24hrs). ABTA ATOL 198.	in Central and details: Em
mother of Foucity and Colin. Funeral at Purney Vale Crema- torium on Monday 19th Janu-	AUSTRALIA 2550 open return with optional stopover. £299 one way. Trailfinders. 01-957 9651. Licensed Air Agents. PARIS, AMSTERDAM and other	SKIING ARGEN
ary at 10.45 am. No flowers by request. LAZENBY.—On January 11th	PARIS. AMSTERDAM and other European cities. Inclusive short breaks from E3O. Good Times City Hoppers brochure from travel agents or ring 01-837 6391 (24 hrs. ABTA ATOL	
request. LAZENBY.—On January 11th 1982, peacefully after a long liness. Renneth Gootfrey. dear- husband of Hazel and lather of Nicholas and Lorraine. Service at Surrey & Sussex Crema- torium. Worth on Friday. Jan- uary 15th 4t 2 cm. Donations.	travel agents or ring 01-857 6591 (24 hrs. ABTA ATOL 9648.	party in Alege tion flight or 0465-35-14. GREECE—better
at Surrey & Sussex Crema- torium, Worth on Friday, Jan- uary 15th at 2 pm, Donations, if desired, to the Gardeners	LOW COST longhaul flights, You name it—multiple stopovers. Unusual routings cheapest ways? —wo'll find it. Trailinders. 46	iower prices brochure tele (24 brs) AB PARIS, AMSTEI
uary 15th at 2 nm. Donations. If desired, to the Gardeners Royal Benevolent Society. Palace Gate. Hampion Court. Last Mossley, Surrey KTE 8BN MAYNE.—On Jamaary 10th at Rindhead. Rachel Elizaboth.	name II—multiple stoporers. Unusual routings cheapest ways? —we'll find it. Trailfinders. 46 Earls Court Rd London W8. MALACA. Flights every Sat. Gat- wick and Manchester from 269 ind tax. Also gnality mackages	PARIS, AMSTER BRUGES, BO ROUEN, GE holidays.—Th Chester Clos 7BO, 01-235
MAYNE,—On January 10th at Hindhead, Rachel Elizabeth, aged 93, widow of Dr W. J. F.	inci. tax. Also quality package holidays from £136. Holmes Hols 104751 625051. ABTA.	I WILLS HOLIDAY
Daughter of the late Professor A. J. and Mrs Butler of Woy- bridge, and beloved stepmother	S'pore £350; Manila £395; Mel- bourne £530; Natrobi £295. All inc. SBT. 95 Regent St., Wi-	Italy, Florida, Villas Internati ABTA/ATOL I TRAVEL FOCU Iravel and
Royal Benevolent Society. Patace Gate. Hampton Court. East Moseley. Surrey KTB 8BN. MAYNE.—On January 10th at Hindheed. Rachel Elizaboth. aged 92. widow of Dr W. J. F. Mayne of Farnham. Surrey. Daughter of the late Professor of the late Dr Gerald Mayne and of John Mayne and much loved aunt of many. Funeral Farnham Parish Church on Tuesday. January 19th at 2.30 p.m.	CORFU, Greek Isles, Majorca, Villas/hotels, Exciting Assoc Travel brochure, Cardiff (0222)	please dial 1
pe sent to the community of St.	371731. ABTA. NONE BUT THE BEST villas are in the TTP Villa brockure. For	S. America, I — Trayvale, 4 W.1. 01-580 CARIBBEAN RI VICE. 500 + apertments, h
Oxon. MEWS.—On January 11th, peace- fully, Belty V., of Pitsford Farm	6211 or 581 0261. ABTA, SKI PARTY, Zermatt. Chalet, accommodation. January 50th.	l trine 🚣 Plie
Mary The Virgin, Waniage, Oxon. MEWS.—On Jennary 11th, near- fully, Beity V. of Pilsford Farm House Morthampton, window, oxother of Employers, window, oxother of Employers of Mastar and Bumphrey. Funoral at All Sedat's, Pilsford, Tuesday, 19th January, at 12 noon, followed by private cremation. Family Jowers, if desired to Bon- ham's, 71 St Gles Sireet. Northampton, Tel: 34368. MORRISON.—Og. 10th Lanary per The Queen's College, Oxord. formerly of Colerains, N.f. Funeral Service at 31 Mary The Virgin, 12 noon, Friday 16th, prior to committal at Oxford crematorium, Donathon prefer- red to flowers, to The John Clough Music Trust, 22 Ormond Food, Waniage, Oxon, Memorry, 6th March, 5t Mary The Virgin, Oxford. MOULTON-BARRETT—Og Jaggary MOULTON-BARRETT—Og Jaggary	vicia ass. Also quality nactone in the control of t	Caribbean, Ol NO NEED TO
Seint's, Pitsford, Tuesday, 19th January, at 12 noon, followed by private cremation, Family flowers if desired to Bone	SEASONAL SALES	Canada, Laila Australia, M bookings, one —Fast Travel Agents
ham's, 71 St Giles Street, Northampton, Tel: 34368. MORRISON.—On 10th January.	· · · · · · · · · · · · · · · · · · ·	VERBIER. Che people regul 8174 between S. AMERICA.
peacoidly, Robert Stair, lately of The Queen's Collega, Oxford, formerly of Coleraine, N.L. Funeral Service at St Mary The	TAMESA FABRICS	S. AMERICA. Airlines 01-9 PERU 1328 rti Perustan 4irli LOWEST RELI
Virgin, 12 noon, Friday 15th, prior to committal at Oxford crematerium. Donations prefer-	SALE	scheduled airt
Clough Music Trust, 22 Ormond Road, Waniage, Oxon, Memorial Sorvice at 2,50 p.m., Saturday.	Starts Monday January 18th	post 45 Bro
Oxford. MOULTON-BARRETT-On January 11th, peacefully at Torbay Hos-	Hormel Stock	phone 01-88 ABTA. SKI COACH and direct to vai every weeken Call Ski V ATOL 1163. VAL D'ISERS, kier, amazin Catored whole
pital, Edith, aged 84 years, dear mother of Gordon and grand, mother of Rex and Elizabeth. Funeral Service at St. Matthias	343 Kings Rd, London, SW3 81-351 1126	every weeken Caji Ski V ATOL 1163.
Oxford. MOULTON-BARRETT—On January 11th, peacefully at Torbay Hos- pital, Edith, aged B4 years, dear mother of Gordon and grand, mother of Rex and Elizabeth. Funeral Service at Sr. Mathias Church, Wellswood, Torquay, on Friday January 18th at 11am. followed by intorment at Palgn- lon Cemelary Enguirles to Tor- bay and District Engoral Service.		kler, amazin Catered thole ing Jan 16
ion Cemelary, Enquiries to Tor- bay and District Funeral Service, telephone Torquay (0803)	ANNOUNCEMENTS	ratered thate ing Jan 16 O985 (24-hrs ATOL 1203 MALTA. CYPE EY-Hasthrow, Through '82' O1677 1446
at Worthing Hospital, Rosemary, and widow of David Newell, dearly loved mother of Antony and	WORLD LEADERS WE'RE	ATOL 8708
richard and grandmother of Caroline, Christopher, Elizabeth, Andrew, Kate and Michael, OTTER,—On January 12th 1982.	IN CANCER RESEARCH Help us make the break-	Home, fully a high stand toller garder 4 star site, s (Valeur, S. 668 8713 (e
peacefully in hospital following a severe stroke, Alan Spencer, aged 77 years of 15, Beacon Heights	Help us make the break- through. Send four donation or in memorium donation to IMPERIAL CANCER BEST ACCH ELIND	(Valeur. S. 668 8713 (e
of Diana (of the Royal Naval School, Hademere) and hus- band of the late Dorothy (nee	Oryongs. Sear Trair constant or in memorium donation to imperial Concer RESEARCH FUND ROOM 160 K FUNDON'S INT FILDS LONDON WCZ SPX	FLIGHT
Hawkesley: Funeral service at Newark Parish Church on Toes- day 19th January at 1.30es- followed by cremation at Wil-	LONDON WCL SPX	SAVE
refenhome Torquay (0803) T2447" NEWELL.—On 12th January, 1982. at worthing Hospital, Rosemary, widow of David Newell, doarly loved mother of Antony and Richard and Hospital, Rosemary, widow of David Newell, doarly loved mother of Antony Roth and Michael, OTTER.—On January 12th, 1982. peacracially in hospital following a severe struke. Alan Sponer. aged 77 years of 15. Beacon Heights. Newark. Beloved father of Diana 105 the Royal Navas Sand of the Royal Navas Sand of the Royal Navas Sand of the Hospital Service at Newark Parish Church on Toes- day 19th January at 1.30m, followed by cremetton at Wil- ford Hill crematorium Noting his of Hill Committee to the Sone Sa Alkert St. New 1rt. ROBERTS.—On 12th January Peacofully at home. Four Winds Y, Stanhope Breite, Nr Burton-on-Trent. Major-General Frank Crowther Roberts, V. Ste Commailion & Bretty, on 18th January, at 3.30 p.m. No loyers by request.		Book befor 1982. Avoi
ROBERTS.—On 12th January, peacofully at home, Four Winds ', Stanhope Breiby, Nr.	HEART DISEASE	Flights to a
purion-in-itent, Major-General Frank Crowther Roberts, V.C., D.S.O., O.B.E., M.C. Private Cremation at Bretby, on 18th	Coronary heart disease to Bri- tain's biggest cause of death and yet every year many	JULIA'S 75 Tottenha
Hans Charles of Steel Cross.	could be prevented by stop- ping smoking. As many as 80° to the deaths of volunter	Lond
Hamp Charles, of Steet Cross, Crowborough, Funeral private, memorial service data to be announced. SCOTT.—On Friday, 8th January	Coronary heart disease is Britain's biggest cause of death and yel every year many thousands of these deaths could be prevented by stopping smoking. As many as 80° to fit deaths of volunter men are directly related to smoking. Sinch is sweat on research and little on prevention. Action on Smoking and in the campaign against disease and death from clearettes, it urgently needs your holp. Picase send a donation to ASH 80x 10, 27/35 Mortimer Street, Wi.	01-63
Crowborough. Fumeral private, memorial service date to be announced. Friday, 8th January Shoins, wife of Ken Scott, of Cakesmur, Tynchead, Midiothian, and January Stephendons, W. C. Con, January 12th at The Old School	Houlth (ASH) leads the field in the campaign against disease and death from clearettes it urgently needs your hold.	Airline
House '. Waldron, aged 60.	Picase sond 3 donation to ASH. Box 10, 27/35 Mortimer Street, W1.	In-
Ruperi, Tim, Rosanne and Oliver, Funeral service at All Salata Waldran on January		Bucke
Saints. Waldron on January 18th at 5 p.m. Flowers and enquiries to R. Jarvis. Funeral Director. Shope Horam Road	Carbas Wandall	7 nights

5. January 11th, 1982 Thomas Major

Corbet Woodall Appeal 41 Eagle Street London WC1R 4AR

Barried and All De at St.	
Bartholomew-the-Grait. West Smithited. F.C.1, at 2 p.m., on Tucsday, 19th January. Flowers 23 J. H. Keryon, 85 Westbourne Grove, X-2, or prought to the Section of the State of the Section of the Section of the Section of the Sectio	SKI SKI SKI BLADON LINES
Service. MacDONALD — Due to travelling conditions the cromation pre-	We have some availability to our havery stalled chalots and our budget chalets on loth
MacDonalD.—Due to travelling the crumsting per country arranged for Yvome care and ar Perth, on Thursday, January 16th, vill new take piece at 11 a.m., Saturday, January 16th.	Company 5107
	Meribel £170 Zerman £168
BERENS.—1 Momorial Service of Thanksplving for the Br of Cett Berons will be held at 12.00 norn on Wednesday. 20th January. 1982, at \$1, Michael's.	Hotels and self-catering elso available, Gatwick, Glasgow and Manchesier flights,
Combili. MAY—A service in memory of Grantin Mary May will be held at All Salats Company of the control of the	BLADON LINES TRAVEL
Signad. Surrey, on Friday, Sander- February at noon. Friday, 5th ATERSON.—The Manuarial Ser- vice for James 4	309 Brampton Road, London SW3 3DY. Tel: 01-561 4861.
Crushi service in memory, 20th in a state of the country of Gwenth service in memory of Gwenth survice in memory of Gwenth survey, such Sander sized. Survey, such Sander sized. Survey, such Sander sized Survey, at noon.—The Memorial Service for James A. Paterson will recordly lender wil. on These surveys of the country	ATOL ABTA
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Today's television and radio programmes

Radio 4

BBC 1

9.05 For Schools, Colleges: Today's subjects are 11.00 Play School: The Story of a Living in a Developing Country, it's Your Choice, it's Maths, Science Workshop, Scene, Near and Far, Search (Down the River Taff) and On the Far. Search (Down the River Tarl) and On the Rocks. There's an interval at 12.20. At 12.30, News After Noon: with Moira Stuart and Jeremy Thompson; 12.57 Financial report and news headlines; 1.00 Pebble Mill at One: Music and chat. And it goes out "live"; 1.45 King Rollo: for the very young; 1.50 Stop — Go! The testing of a new car; 2.00 You and Me: another one for the very young; 2.15 For Schools, Colleges: Music Time and Television Club (A School in Time: Schoolditz): 3.55 Play School (see RCC 2 Schoolditz); 3.55 Play School. (see BBC 2,

4.20 Laurel and Hardy; cartoon; 4.25
Jackanory: Rodney Bewes reads part four
of Ursula Moray William's Jeffy, the
Burglar's Cat.

4.40 Huckleberry Finn and His Friends: Episode 2 of the Mark Twain story. 5.05 Newsround: with Paul McDowell; 5.10 Blue Peter: The story of Jane Austen and her secret. The presenter is Sarah Greene. 5.40 News: with Linda Alexander, 6.00 Regional news magazines. And at 6.25, Nationwide.

7.00 Tomorrow's World; Tonight's edition features: the first floating fish larm; an expensive piece of hi-fi equipment which can correct faulty records; a new way of making milk products from powder which can increase the life of a cream bun by six months. And another reason why smoking mothers-to-be may be harming their

7.25 Top of the Pops: with Dave Travis. 8.00 Wildlife on One: The Great Hedgehog Mystery. An A to Z of the spiney ones, including S for Sex.

9.00 News: with John Simpson. And weather

9.25 Shoestring: The Teddy Bear's Nightmare.

10.20 Question Time: Robin Day and his panel of

Another in his drama series starring Trevor
Eve as the radio station private eye. Why is
the owner of a lost handbag so reluctant to
claim it? Also starring Michael Medwin as
the station boss, Dave King and Charlotte
Comwell (r).

experts face another audience at London's Greenwood Theatre. Tonight, the accent is on education. His panellists are Neil Kinnock, Opposition spokesman on

education; Shirley Williams, former Secretary of State for Education; John Thom, headmaster of Winchester College; and Marian Roe, a Greater London Council

11.20 Kojak: A full-scale murder hunt is launched

for the killer of a police patrolman.

BBC1 VARIATIONS: Cyrerti/Wales 10.10-10.32 am I Yagolion. 12.57-1.00 pm News. 2.15-2.40 I Yagolion. 6.00-6.25 Wales Today 7.00-7.25 Heddiw. 12.19 am News headlines. Scotland 12.55-400 pm News. 3.00-3.30 The Alternoon Show. 6.00-6.25 Reporting Scotland. 8.30-9.00Current Account. 12.10 am News. Northware Instand 11.30-11.55 am For Schools. 12.57-1.00 pm News. 3.53-35 News. 6.00-6.25 Score Around Skr. 12.10 am News. England 6.00-6.25 Regional news magazines. 12.15 am Close.

SCATE NO TO THE HISTORY ON YOUR DOORSTEP

(BBC 2, 7.35), a new series of eight short films designed to provide Britons with short cuts to a better

understanding of their environment,

seems to take its cue from some

lines by T. S. Eliot ("the end of all our exploring will be to arrive when

we started, And know the place for the first time"). Tonight's inaugural

film is a re-discovery of the Cambridgeshire village of Swavesey where there are sermons aplenty in stones, not to mention books in the

running brooks. Speaking of books, there's an excellent one by local

12.10 Weather forecast. Closedown at 12.15.

Seconds Out: Boxing world comedy. The champion is bound for Paris, but round one

4.45 Muggeridge: Ancient and Modern Second screening of this eight-part autobiographical series in which Malcolm Muggeridge, with the help of archive film, surveys his multifaceted life. Today: his education and a teaching post in India (r). 5.40 All Creatures Great and Small: More pages from the lives of country vets. Today: an

BBC 2

River, with music adapted from Smetena. Presented by Chice Ashcroft

and Fred Harris (also on BBC 1, 3.55); 12.00 Open University: Yoday's subjects are: — The Pre-School Child (Give and Take); 12.25 Childhood (5

Sweet Dome. Open University programmes end at 1.15; intermission follows: 3.55 Robinson's Travels: Another chance to see this series of

to 10): Out to Play; 12.40 Home

films in which the TV and radio

personality Robert Robinson goes journeying through India. Today:

Calcutta to Mirzapur, His eventual destination is Simia (first shown on

emergency operation on a workman's dog. With Robert Hardy, Christopher Timothy (r). 6.30 Ennal's Point: Episode 2 of the serial about Welsh lifebox A local doctor goes fishing and lands himself in trouble. 7.15 Cartoon: M Pointu. From

anada; 7.30 News summary. 7.35 History on Your Doorstep: First in a new series (see Choice). Nothing Without Work: Work. leisure and community life of the people of Govan, on the edge of Glasgow, it's the story 9.00 The Nolans: Songs from Bernadette, Maureen, Linda and Colleen. They include God

Knows, Attention to Me, and Fame. There's another Nolan concert next week. 9.30 Forty Minutes: The Great Cover-up. Documentary about

of their head. Made by John Percival, who knows what it

Championship, from Jollees

Club in Stoke-on-Trent. The semi-finals begin tomorrow.

The scene-setter is Peter Purves. More at 11.30.

11.30 International Darts: Back to Stoke-on-Trent. Ends at 12.15.

10.10 International Darts: The quarter-finals of the Embassy

World Professional

10.45 Newsnight: news and

ans to be short of thatch...

3.45 Three Little Words: word association game. With Ray Allan.

9.30 For Schools. Subjects Include My World (diary men), Seeing and Doing (Roman Britain), Geography (valley glaciers) And Over to You (print); 12.00 Little Blue: baby elephant story; 12.10 Get Up and Gol; with Beryl Reid; 12.30 The Sultivans: Grace's birthday dinner; 1.00 News from ITN; 1.20 Thames news headlines; 1.30 Take the High Road: Scottish estate serial. Enter a stranger; 2.00 After Noon Plus: with Judith Chalmers, Trevor Hyett: Judith looks at the beauty business and seeks answers to the puesition: is it

business and seeks answers to the question: is it all a great confidence trick? 2.45 Love Among the Artists: Episode 2. Shaw's novel serialized by Stuart Latham. The teacher (John Stride) clashes

with Mr Braitsford (John Horsley) once again. Also starring Geraldine James, Judy Campbell (r).

ITV/LONDON

4.15 Dangermouse: cartoon: 4.20 Little House on the Prairie: Mrs Oleson (Katherine MacGregor) seeks another "daughter". 5.15 Emerdale farm: Yorkshire country folk . 5.45 News from ITN; 6.00 Thames area news.

6.30 Thames Sport. The local scene surveyed. 7.00 Does The Team Think? TV version of the old radio question-and-aswer comedy show. With Beryl Reid, Jimmy Edwards, Frankie Howard, William Rushton and Tim Brooke-Taylor (as MC). The questions are put to the panel by members of the public. And, each week, there will be a different guest personality joining the questioners. This is the first of this new series.

Film: The Way We Were (1973) Romantic drama about the on-and-off relationship between a politically active girl (Barbra Streisand) and a non-political writer (Robert Redford). With Marvin Hamisch's muchloved music: Co-starring Bradford Dillman.

9.00 Film: The Way We Were (continued.) 9.30 TMM: Inp way we were (continued.)
9.30 TV Eye: Challenging the Russlans. Nick Downie's filmed report which he shot behind the Soviet lines in Alghanistan. Guided in darkness, by Alghan guerrillas, he made his way through the city of Kandahar to the central area held by the insurgents. He filmed the street-by-street fighting between government forces and the guerrillas. Dowle foot two months to film his report. the expense, pain and disappointment that some men have to put up with when they decide to have something done about the fact that they have more skin than hair on the top of their head. Made by John took two months to film his report.

10.00 News: And Thames area news. 10.30 Danger UXB; Dead Man's Shoes. Repeat of this superior drama series about a bomb disposal squad in warlime Britain, and starring Anthony (Brideshead Revisited) Andrews. This episode, the first of 13, has Andrews, a Royal Engineers officer, being posted to a bomb disposal company. It is 1940 and London is daily having to face the horror of these appalling weapons of destruction.

destruction. (r). 11.30 Enterprise: Profile of Robert Sangster, said to be the world's number one horse dealer, and his team who have become known as Sanester's raiders because of the way they swoop on horse auctions (r).

12.00 What the Papers Say: Andrew Alexander political writer on the Daily Mail. 12.15 Close:With Ginette Spannier.

resort to every concealment device CHOICE acquiring an alien covering of head thatch. The case histories of four affiliated leadings. afflicted Londoners are examined and swimmer Duncan Goodhew puts the eight films. In two of them, to be screened later, he will be the case for those who have found that viewer's proxy as explorer. In the others, including tonight's, he is the local history pupil, learning from experts such as Professor

Radio choice: On lesser

shoulders than Alan Howard's, Christopher Logue's WAR MUSIC (Radio 3, 7.35) would press down with a mountain's weight and drive both actor and production into the earth. But, thanks to Mr Howard's oratorical skill, this recital of books historian Jack Ravensdale which the vast amount of past that surrounds 16 to 19 of the flad is a one-man-Instorian Jack Havenscale which the BBC has produced in connexion him, it shouldn't run for ever, or with the series (BBC Publications, £4.50p). Fred Housego, former BBC TV Mastermind and London cabble, now making some headway on radio and television as a perky Everyman, unlike Messrs Savalas and Brynner,

6.00 News Briefing. 6.10 Farming Today. 6.30 Today. 9.20 Kaleidoscope.
9.59 Weather.
10.00 The World Tonight.
11.00 A Book at Bedtime: "Rogue Male" by Gentirey Household 8.45 The Widower by Georges Simenon (9) 9.00 News. 9.05 it Mekes Me Laugh. Les Dewson listens to some entertainers that make him laugh. 9.30 The Living World. 10.00 News. 10.02 Two Lives. A look at the lives of Deflyd Wigley, MP and his wife Daffyd Wigley, MP and his wife as they try to give their two healifry children a normal upbringing, whilst their two other children are dying from a hereditary disease. 10.30 Dally Service. 10.45 Morning Story: "A Five-Set Match" by Donald Bancroft. RADIO 3 8.00 News 11.00 News. 11.05 File on Four. 11.50 Enguire With 12.00 Mews. 12.02 You and Yours. 12.27 Never Too Late.† 12.55 Weather. 1.00 The World At One. 1.40 The Archers. 2.00 News. 2.02 Woman's Hour. 3.00 News. 3.02 Play "The Wise Woman of 4.15 Bookshelf,
4.45 Story Time: 'The Rover' by
Joseph Conrad. (9)
5.00 PM.
5.55 Weather
6.00 News and Financial Report.
6.30 Any Questions?
6.55 Ne a Bermin It's a Bargain. 7.00 News. 7.05 The Archers.

aid in establishing personal identity. 8.40 Concert (Part 2) Elgar Seren-ade for strings Rimsky-Korsa-

11.15 The Financial World Tonight.
11.30 A Record of Wer. A look at the way the First World War affected women.

6.55 Weather.
7.00 News.
7.05 Morring Concert: Handal,
Bach, Stravinsky: records.†

7.20 Time For Verse, Simon Brett presents a selection of useful

7.30 Bournemouth Symphony Or-chestra direct from the Winter Gardens, Bournemouth.†
8.20 Identity Work and the Gallery
Ousue, Halla Beloff reflects on
how the arts can be a useful

8.05 Morning Goncert (continued): Mozart, records. 9.00 News. 9.05 This Week's Composar; Scrie-Subs this week's computed bir, records to bir, records to the week's computed bir, records to the week's the week's transer Kochansko to transer Kochansko to Recital to the week's Recital to the week's Recital to the week's Symphony Orchestra Concert Susoni, John McCabe, Balakirev to 1 00

1.05 Manchester Midday Concert-Piano Duet recital direct from the Royal Exchange Theatre: Hindemith, Schubert †

Hindemith, Schubert †

2.00 Hercules auf dem Scheidowege
(Hercules at the Cross-roads)
Music drama in one act by
Bach (sung in German,
record) †

2.55 Milhaud's Cello Sonata: Cello
and Piano recital †

3.15 The Segova International
Guitar Competition: excerpts
from the preliminary and semifinal rounds † final rounds †
4.00 Donan Wind Quintet Recital libert. Barber. George Perle, Jean-Michel Damase †

Jean-Marches Learness 7
4.55 News
5.00 Mannly - for Pleasure - with
Donald Price †
7.00 Schumann: Plano music on record †
7.35 War Music: An account of books 16-19 of Homer's "Riad" 9.25 Words (series): Talk by Michael Neve
9.30 A Century of Choral Music
(sense) Concert given by the
BBC Singers Part 1. †
10.10 Interval Reading.

10.15 Concert, part 2.
11.00 News
11.05 Howard Blake on record I Medium Frequency/Medium Wave as vht above except 7.05-11.15 am Cricket Fifth Test Radio 2

5.00am News 5.03 Steve Jones 1

Everything Magazine programme from Cardiff: 11,30-12.30 am Victoria Park.

· TSW

As Thames except 1.20pm-1.30 News. 5.15 Gus Honeybun s Magic

News, 5.15 cus intropriors of the services of the Services of the Views. 6.40 Take Tuckerman 7.00-7.30 Benson 10.32 News, 10.35 Controversy Plan for legalized brothels 11.05 Medicine Men: Radionos. 11.35 Jazz Barbara Thompson's Paraphernals. 12.05em

7.30 Terry Wogan † 10000 Jimmy Young † 12.03pm John Dunn, † 2.00 Ed Stewart † 4.00 Daws? Hamilton † 5.45 News 6.00 David Sy monds † 8.00 Country Club † 9.00 Alan Deli † 10.00 The Spinners and Friesids 10.30 Star Sound Extra 1 ft.03 Brian Matthew + from Midnight 11.00sms Truckers Hour + 2.00-5.00 You and the Night and the Music 1

Radio 1

5.00 As Ratio 2 7.00 Mike Read 9.00 Smon Bates 11.30 Dave £ se Traces 2.00pm Paul Burnett 3.30 The Record Producers (Part 2) Tiom Dowd 8.00 David Jensen 10.00 John Peel † 12.00 Close

WORLD SERVICE WORLD SERVICE

BBC World Server can be received im Western Europe or medium wave 648 kM.2 (463m) at the tolkowing lines GMT 6.01. Newsowelf 7.00 World News 7.09 Inventy-Four Hours News Summery 7.30 Marchings and Waltzing 7.45 Network UR. 8.00 World News 8.09 Reflections 8.15 Golden. Tressury 8.30 John Pest 9.00 World News 9.09 Review of the British Press 9.15 The World Today 9.30 Flushing News 9.40 Look Ahead 9.45 Rock 3.aled 10.15 Ploughman of the Moon 10.30 Just in Ministe 11.00 World News 11.09 News about Britain 11.15 Words March 10.9 News about Britain 11.15 Words March 10.9 News about Britain 11.15 Words March 11.00 World News 11.00 Received Lives 11.30 Asseptiment 1.20 Received UK 1.45 The Pleasure 2 Worn 2.30 Discovery 2.300 Fladon Newsree 3.15 Outlook 4.00 World News 3.09 Gommers. y 4.15 Assignment 4.45 The World Delay 9.500 World News 8.09 Gommers. 9.30 Fladon 8.00 World News 9.00 World News 8.09 Gommers. 9.30 Fladon 8.00 World News 8.09 Gommers. News 8.09 Inventy-Four Hours News 8.09 Inventy-Four Hours News 8.09 Inventy-Four Hours 8.00 White News 8.09 Inventy-Four Hours 8.00 Fladon 8.00 World News 8.09 Inventy-Four Hours 8.00 Fladon 8.00 White News 8.00 8.00 Fladon 5.00 World News 5.09 Mendian 8,00 Pend News 8,09 Iwenty-Four Higurs: News 8,09 Iwenty-Four Higurs: News 8,00 Eventy-Four Higurs: News 8,00 Eventy-Four Higurs: News 8,00 Eventy-Four Higurs: News 10.00 Morid News 10.00 Finenreal News 10.00 World News 10.00 Finenreal News 10.40 Reflections 10.45 Soorts Roundon 11.00 World News 17.09 News belout British 12.00 News 12.00 News belout British 12.15 Radio Newsreel 12.30 Come Let 9 to Bad. Says Steepy Head 1.00 Ploughtann of the Moon 11.5 Corticol 1.45 Usster Newsfelter 1.50 In the Meentane 2.00 World News 2.09 Review of the British Press 2.15 Golden Treasury 2.30 Musor New 3.00 Windt News 3.09 News about Britain 3.15 The World Today 3.30 Besiness Matters 4.00 Newsdeds 5.45 Fine World Today

FREQUENCIES: Radio 1 MF 1053kHz/285m or 1089kHz/275m Radio 2 MF 693kHz/433m or 909kHz/330m Radio 1/2 VHF 88-91MHz Radio 3 VHF 90-92.5MHz, MF 1215kHz/247m. Radio 4 LF 200kHz/1500m and VHF 92-95MHz Greater London Area MF 720kHz/417m LBC MF 1152kHz/261m, VHF 97.3MHz. Capital MF 1548kHz/194m, VHF 95 8MHz BBC Radio London MF 1458kHz/206m and VHF 94 9MHz World Service

REGIONAL TELEVISION VARIATIONS

ANGLIA

Asi Thames except: 1.20 pm-1.30 News, 2.00-2.45 Not for Women Only. A20 Vicky the Viking. 4.45 Further Adventures of Oliver Twist. 6.00 About Angle. 6.20 Arens. 6.35 Crossroads. 7.00-7.30 Benson. 10.30 Darts. 11.00 Medicine Men: Radionics. 11.30 Hagen. 12.30 am Council in Question: World Council of Churches.

As Thames except: 1.20 pm-1.30 Border News. 4.20 Happy Daya. 4.45-5-45 Here's Boomer. 6.00 Lookaround. 6.35 Crossroads. 7.00-7.30 Emmerdale Farm. 10.30 Golfino

BORDER.

dale Farm. 10.30 Golfing ld Pakner. 11.00 Medicine reats: Amold Palmer. 11.00 Medicing Ren: Radionics. 11.30 News. 11.33 YORKSHIRE As Thames excent 1.20 News. 4.20

As Inames except 1.20 News. 4.20 Sport Billy. 4.45-5.45 Little House on the Prairie. 6.00 Calendar. 6.35 Crossroads. 7.00-7.30 Emmerdale Farm. 10.30 Harewood by George: Profile of Earl of Harewood. 11.15 Medicine Men: Radionics. 11.45 Ladies Man. 12.15 Closedown.

As Themes except, 1.20 pm-1.30 News 200-245 Not for Women City.
5.15 Watch This Space . . . Good
News of the Week. 5.30-5.45 Coast to
Coast. 6.00 Coast to Coast. 6.35
Crossroads. 7.00-7.30 Emmerdele
Farm. 10.30 Just Williams. 11.00
Medicine Men: Radionics. 11.30 New Avengers, 12.30 am Company followed by Closedown.

··· \ ··· - TVS

Where 6.40 Take Tuckerman 7.00 7.30 Benson 10.28 News 10.34 Better Read 11.05 Medicine Men: SCOTTISH As Thames except: 1,20 pm News.
1,30-2,00 Bygones. 4,20 Palmerstown
USA. 5,15 Pet Subject: 5,20-5,45
Crossroads. 6,00 Scotland Today.
6,20 Bodyline. 6,30 New You See it.
7,90-7,30 Take the High Road. 10,30
Make Mires Aleste. High Road. 10,30
Make Mires Aleste. High Road. 10,30 Radionics, 11,35 Jazz Barbara Thompson's Paraphernalia: 12.05em Cinserlown HTV Cymru/Wales Make Mine Music. Norman Bailey and Bernadette Greevy, 11.00 Medicine As HTV West except 11.22 am-11.37 Am Gymru 12.00 Poli A Pili 12.05 pon-12.10 Calimero 4.15 Theatre Box. 4.45 Ser 5.10-5.20 Underseas adventures of Captam Nemo 6.00 Y Dydd 6.15 Report Wales 6.30-7.00 Sports Arena 10.30 All Kinds of Everything Managare programme from Men: Radiopics, 11.30 Seachd Laithean, 11.45 Late Call, 11.50 Barriey Miller, 12.20 am Closedov

As Thames except: 1-20 pm-1-30 News 2.00-2.45 Not For Women Only. 4-20 Palmersiown USA 5:10 Jobline. 5-20-5.45 Crossroads, 6-00 News. 8-30 Our Incredible World, 7-00-7-30 Emmerdale Farm. 10-28 News 10-30 Scane 32: Arts. in the West, 11-00 Medicine Men. 11-30 Lou Grant. 12-30 am Closeform.

Alan Howard in War Music (Radio 3, 7.30 pm)

TYNE TEES

Tyne Tees As Thames except: Starts 9.20am Good Word 9.25-9.30 News. 1.20pm-1.30 News. 3.45-4.15 scapm-1.su News. 3.45-4.15 Seilorman: Old sailing barges. 4.20 Fangface. 4.45-5.45 240 Robert. 6.00 News. 6.02 Crossroads. 6.25 Northern Lite with Tow Coyne. 7.00-7.30 Emmerdale Farm. 10.30 News. 10.32 Job Stot Extra. 10.35 Barney Miller. 11.00 Check It Out. 11.30 Medicine Man. 12.00 Entloyer. 12.05 Men. 12.00 Ep

CHANNEL As Themes except 1.20pm-1.30 News, 5.20-5.45 Crossroads 6.00 Channel Report 6.35 What s on GRAMPIAN

As Thames except Starts 9.25 am-9.30 First Thing 1.20 pm-1.30 News 4.20 Flying Kinn 4.45 Sport Billy 5.15-5.45 Emmerchale Farm 6.00 North Toright 6.30 Police News 6.35 Crossroads 7.00-7.30 Entertainers Cambridge Buskers 10.30 Bizarre 0H-beat Comedy 11.00 Medicine Meo Radiones 11.30 Seachd Lathean 11.45 News 11.50 Closedown

GRANADA

As Themes except 1.20 pm-1.30 **ULSTER**

Granada Reports 4.20 Here s
Boomer 4.505.45 Little House on the
Prame 6.00 Granada Reports 6.25
This is Your Right 6.30 Crossmads
7.00-7.30 Emmerdale Farm 10.30
Barney Mister 11.00 Medicane Men
Healing 11.30 What the Papers Say
11.50 Jenspeed and Brown Shoe.
12.45 am Closedown. As Thames except 1.20 pm-1.30
Lunchtime 4.13-4.15 News 4.20
Adventures of Black Beauty 4.45
Flying Krwf 5.15 Watch This Space
5.30-5.45 Good Evening Ulster 6.00
Good Evening Ulster 6.25 Police Sot.
6.35 Crossroads 7.00-7.30
Emmerdale Farm 10.30 Buzerre:
Comedy 11.00 Medicine Meh:
Radbories 11.30 SEDTIME,
Closedown.

CENTRAL

As Thames except 12.30 pm-1.00
New Kind of Family 1.20-1.30 News.
4.20-5.45 Film Dot and the Kangaroo
Australian settler's daughter becomes
lost in the bush 6.00 Crossroads
6.25 News 7.00-7.30 Emmerdale
Farm 10.30 Venture Current affeirs presented by John Edwards 11.00 Medicine Men Radionics 11.30 News 11.35 Dear Detective (Brenda Vaccaro). 12.35 am Closedown...

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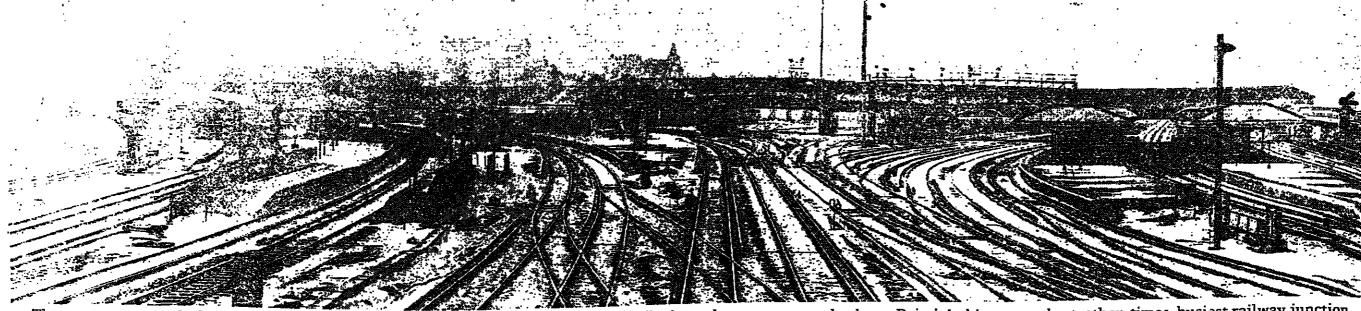
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The snowy wastes of Clapham Junction in London yesterday as the train drivers' strike brought unaccustomed calm to Britain's biggest and, at other times, busiest railway junction.

BL said last night that the

supply of components from snowbound South Wales to its Midlands car factories was still critical and would remain so until major roads had been upblocked

Three helicopters are run-

ming a round-the-clock shuttle service of the most preently.

needed parts from Llanelli,

Neath and Ysstradgynlais to its

plants at Longbridge and

still touch and go whether we can keep the assembly lines running. We have been within hours of a shutdown."

Miss Wales, 21-year-old Vicky

Newitt. had to be rescued by helicopter from her snowed-in home at Blaenavon, near Newport, so she could go to London to qualify for the Miss

Great Britain contest and Mr Peter Neal, a student aged 20,

Clamorgan Institute of Higher Education at Cardiff.

280 volunteers gave blood at

Uttometer after an appeal that

In Staffordshire, more than

A BL spokesman said: "It is

unblacked.

The big freeze claims more victims

The severe weather con-unued in ritain yesterday, in freezing fog and black creating more hazards for mmuters forced on to the ...ds by the rail strike.

A blanket of freezing for escended over most of England during the morning, easing multiple pile-ups on motorways and several faral accidents. Motorway speed limits were imposed, and the RAC reported visibility down to 10 yards in places.

A woman passenger was killed in a mree-lorry accident in freezing fog on the Great North Road near Peterborough and a driver from Middlesex died when his car hit crash barriers on the M4 near Reading. A multiple crash involving about 20 vehicles on the A34 in Oxfordshire left two men and a woman seriously injured, and seven-mile queues. Two crasbes within minutes Newmarket involving 11 cars left one person injured, and junction 13 on the M1 in Bedfordshire was closed after an zccident.

Mr David Doyle, aged 20, and his brother James, aged 8, died, four people were taken to hospital and dozens evacuated from their homes in Dublic of the control of the cont Dublin after a series of gas leaks thought to be associated

with the freeze.
Mr Hecley Wilson, aged 49, was killed when he became entangled in machinery while cleaning out a grit spreader lorry at a county council denor in Darleyr Dale, Derbyshire. The London Weather Centre

Freeze kills 130 in America

☐ The freezing weather which has gripped the United States since Saturday has now claimed 130 lives and has spread south from Texas to Florida.

There, citrus fruit growers tried to save their crops by lighting fires in the groves or spraying the trees with water, in the hope that a covering of ice would protect them from the frosty air. Farmers are comparing the damage to the \$900m disaster of 1977.

The latest victims of the weather, included a man aged 90 and his 86-year-old wife, both deaf mutes, who froze to death as they slept in their New York home after their furnace failed.

several places in Oxfordshire. A spokesman predicted that the cold weather would con-tinue today, but a thaw starting in the South-west, North-west, West Wales and Northern Ireland would reach the rest of the country by the end of the week.

The Government has talen the first steps towards mying to win EEC compensation for the damage caused by the snow and ice. The Department of the Environment has sent reports to the EEC Commission in Brussels, "alerting them that we have a disaster". a spokesman said vectorday.

The weather caused £40m of damage to property lost month the British Insurance Associaeported temperatures of tion said yesterday. It was ton -16°C early yesterday in early to estimate the damage

caused this month, much due to flooding.

Hundreds of roads in Wales and the South-west were still impassible yesterday. About 1,400 homes in North Devon were still without electricity, and many isolated communities were cut off for the sixth successive day. By last night the South-west Electricity Eoard for farmers. cessive day. By last night the South-west Electricity Board had restored power to 90 per

cent of homes. More than 30 towns and villages in Wales were still totally isolated last night, six days after the principality was hit by the worst blizzard in living memory.

Bread, milk and other essential supplies are still scarce and some areas faced the additional misery of water shortages as ice blocked up reservoir pumping equipment. In Dyfed, the RAF was using helicopters to ferry supplies to

12 villages cut off from all other routes by 20ft snow drifts. Hundreds of people in Pembrokeshire were still without electricity in spite of the efforts being made by engineers who were ferried to inaccessible powerlines by a fleet of nine helicopters. Most main roads in south Wales were open for single lane traffic, although police

ane traffic. although police arrived in Cardiff after comparated by motorists ignoring requests to sizy at home indicated they would prosecute in one causing an obstruction.

The Prince of Wales has ent a message to W Nicholas students' fund of the South of State Classification of Classification of State Classification of Classification of State Classification of State Classification of State Classification of Classificati ing requests to slav at home indicated they would prosecute anyone causing an obstruction. sent a message to Mr Nicholas Edwards, Secretary of State for Wales, expressing sympathy for people suffering from the

exasperated by motorists ignor-

weather and congratulating troops and councils for their

Russia sees its chance in Albania

Continued from page 1

given here to rumours that there were more than a dozen casualties in the shooting show down. But, whatever the truth, Yugoslavs are inclined to con-clude that the days of Mr Hoxha's one-man rule have drawn or are drawing to a

The Russians also seem to have got wind of something going on in Albania. Only a few days ago they published an article in Izrestia which was unusually friendly and conciliatory to Albania and, for the first time in many years blamed the break in relations between Moscow and Tirana on the Albanian lead-

ers, including Mr Hoxha.

Hitherto the Russians had deliberately refrained from attacking Mr Hoxha personally as they were still entertaining hopes that he might change course. But the Izvestia article seems to mirror Moscow hopes that the end of Mr Hoxha might herald new prospects for the Soviet Union.
In recent days the Bulga rians have also been paying unusual attention to Albania and there was a flurry of newspaper articles, all in the same conciliatory vein, sug-gesting that the offer of Bulgarian friendship remains for the Albanians to pick up whenever they may be ready for it. Such a turn would clearly be most unwelcome in Relgrade. However had Yugo-slav relations with Mr. Hoxha may have been, he provided a supplies were running short guarantee that Albania would due to the weather conditions. | guarantee that Albania would not return to the Soviet camp.

Bill will aid release of mentally handicapped

By Lucy Hodges

The government is to change Mental Health (Amendment) Bill now going through Parliament so that many fewer manually handicapped people will be locked up in hospitals. Lord Enton, an Under-Sec-retary at the Department of Health and Social Security, Health and Social Security, will be tabling amendments to the Bill which should mean that the mentally handicapped are not forcibly detained in hospitals utless they are abnormally aggressive, or seriously irresponsible. The number in this category is thought to be fewer than 2,000.

The move was hailed yesterday as a tremendous victory by Mr Brian Rix, the former actor who runs the Mencap charity. "We would have liked separate legislation but we have got 85 per cent of what we want. We are really very thrilled," he said.

When the Bill was published in November there was an out-cry from Mencap because mentally handicapped people considered to be in need of special control were to continue to be treated in the same way as the mentally ill.

Anonymous donations have

enabled the National Trust to increase its offer for Land's

End to more than film, it was disclored yesterday (John

disclored yesterday (John Young writes).

The trust was told that its previous offer, believed to be about \$750.000, was not acceptable.

The charity has campaigned for years to educate ministers and the public about mental handicap, which is not an ill-ness and cannot be cured, but which is commonly confused with mental illness. Mencap wants to see the mentally handicapped taken out of hospitals altogether and not lumped together with the mentally ill as "mad" people. mentally ill as "mad" people.

The amendments will still mean that the few mentally handicapped who commit serious crimes will be detained

In future only those who are abnormally aggressive will be compulsorily detained. In 1980, 12 mentally handicapped people committed serious crimes and the same number the year before.

Mr Rix estimated that the amendments would affect between 13,000 and 14,000 people now in bospital. He said that mentally handicapped people forcibly detained in hospital would be able to have their detention challenged. The committee stage of the Bill is due to begin in the Lords on Tuesday.

Trust raises Land's End offer Officials hoped that the invitation to revise its bid meant that the owner, Mr Charles Neave-Hill, was keen to sell the property to the trust if possible. But they had no

means of knowing how many

rival bids there were or what they amounted to.

Gormley's appeal to miners

Continued from page 1 been recommended for acceptance, but it was not, union tunately, and that is why I have kept quiet up to now. Eut statements made by some left wing coal field leaders had prompted him to speak out as the miners made their decision on how to vote. "Some people are trying to turn it into a political argument. That creates dangers that I don't think any trade union ought to be involved in. If we want to change the government we should do it through the ballor

box."

If the men struck, it could take them two years to recoup earnings lost through a five or six weeks stoppage, and they would also seriously affect the Plan for Coad designed to safeguard the future of the industry.

"Therefore I have always

taken the view that in any negotiations there has to be a compromise A 55 per cent majority is required for strike authority.

The board's offer worth 9.3 per cent on basic rates and up to 10.5 per cent for men with long service, was the best made by any industry in the current round, Sir Derek Ezra said in Glasgow. Miners' comper cent above average for workers in other industries and the offer would more than maintain that position. The coal industry had offset business lost in the recession by doubling exports to 9 million tonnes—an achievement that would be jeopardized by sele losses from a strike.

THE TIMES INFORMATION SERVICE

Today's events

Royal; engagements Kent attend Royal Maritime Cala at St Paul's Carnedral, to launch

Exhibitions

William Blake and his contem-poraries, watercolours and printed hooks, Graham Robertson Room, Fizwilliam Museum, Cambridge,

The Times Crossword Puzzle No 15,729

ham, 10 to 7.

Miniature paintings and draw-ings by J. Q. Pringle, Graves Art Gallery, Surrey Street, Sheffield, 10 to 3.

History of the traction engine. Reed Octagon, Milsom Street, paintings by David Weston, Dath, 10 to 4.45.

Albert Drive, Glasgow, 10 to 5.

Reed Octagon, Milsom Street, Bath, 10 to 4.45.

Beasts on Wheels: 19th century travelling menageries. John Mains

Music for 18th century pleasure gardens Cornel Music Group, in period costume, Holburne period costume, Holburne Museum Great Pultency Street,

The Pound

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	Denmark Kr	14.46	13.76
1	Finland Adkk	8.65	8.21
- 1	France Fr	11.30	10.70
- 1	Germany DM	4.47	4.22
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AC:ROSS

- 1 Haunt of bats and Tennyson's white owl (6).

 4 A quarter for three of them
- 104 French artist in Fish Row (7). 11: Got to the point — summed up without a word of hesitation
- 1:2 Stick up company management with a playing-card? (10). 1:3 Fish spear (4).
- 1:5 French girl pushes father into river (7).
- £7 An art-master with energy? Wonderful! (7).
- 13 Stable company (4). 14 Sixteen standing 23 ac (10).
- .: 7 Sea food for Jack and no one
- 28 This wagon for the post? (7).
- .29 Old tramp to smuggle silver and perhaps tea (5). 30 What was once called, we bear, elevation (6).

DOWN

- 1 Retract support on quiet deal, maybe (4-5).
- 2 Makes contact, which inter alia is essential (7). Swimmer cured? That's mis-leading (3,7).

Thousands of Pictures—Millions world, of Miles, photographs by Freddie 10 to 6.

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	bu)'s	seil.
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5 Paper's intrinsic design to

- dilute foreign currency (9). Scandinavian mate tossed up a
- Final stations shown in merit-8 Southern limit of marsh plant
- Ruin a continental party (4).
- 14 Disruptive movement with underground origins (10).
 16 Former pirate in midst of battle, a sociable type (9).
 18 Red, trade, writing takes, the 18 Red trade union takes the
- The call of stage or screen (7). Making for a title? (7).
- 19 It's used to fasten hair-piece to head (4-3).
 12 This garden of the King's Head by a Hampshire river (7).

 23 Matural talent pots novice in pretty good situation (5).
 25 Girl from a potty French family? (4).
 26 As star

Solution of Puzzle No 15,728



Poussin and his engravers. Community Education Centre, University Art Gallery, Portland Glasgow, 10 to 5.

Paintings by Barrington Moore, Annexo Gallery 45 Kink Street Paintings by Barrington Moore, Annexe Gallery, 45 high Street, Wimbledon Common, SW19, 10 to

The Imperial Collection, replica collection of Royal and imperial Crown Jewels and regalia of the world, Central Hall, Westminster,

Music Bath, 7,43.

Buch Contain 32, St Mary-at-Hill, off Eastcheap 1,15.

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The papers

The Frankfurter Aligemeine Zeitung warns if Europeans try to get out of sanctions over Poland. America might lose in-

Poland. America might lose in-terest in the alliance.

The New York Times said yes-terday the Reagan administration has had plenty to say about mili-tary repression in Poland, but what about South America? It praised Mr Reagan, however, for his courageous decision on air-craft sales to Taiwan, as did the Washington Post.

Wildfowling ban

A second 14-day ban on wild-lowling has been imposed because of the continuing freeze. It covers the whole country and lasts until midnight on January 26.

Postal delays

Letters and parcels posted yesterday and today will be delayed because of the rail oribe, and some express facilities cannot be maintained during this period. Bad weather is causing additional delays to post, particularly in S Wales, the West Country and some parts of the Midlands.

Anniversaries today

Pierre Loti was born at Roche-fort. 1350 and Albert Schweitzer at Kaysensberg. Alsace. 1875. Lewis Carroll died at Guildford, 1893.

Travel emergency: Rail, road, sea

For pre-recorded information on rail, air and road travel in High pressure will decline The following Weather Centres are open 24 hours a day. 365 days a vear, for weather advice: Bristol: 0272 279298: Cardiff: 0222 377020; London: 01-836 4311: Manchester: 061-832 6701: Newcastle: 0632 26453; Nottingham: 0602 384092; Southampton (open 6 am to 10 pm): 0703 28844.

Roads

Little

Roadworks

improvement

Several main roads remain closed in West Country, including A46, Bath to Stroud, A434, Techury to Malmesbury; A431, Bath to Bittom; A39, Porlock to Linton, and A361 near Beckhampton.

A417, Gloucester to Cirencester closed to heavy vehicles. It

Scotland, many minor roads still closed, and snow drifting on A9. Freezing fog and icy patches is making driving hazardous in many parts of the country.

Midlands: A5: Temporary signals between Weedon and Hinckley, Northamptonshire, M1:

Rail strike

There will be no services today, and no overnight trains tonight. Trains expected to run normally from tomorrow morning, but for times of very early morning de-partures, call station information offices, which will be manned to-day, or Traveline (see above).

Parking There will be no free parking at meters in London. Parking restrictions will be enforced but there will be extra parking facilities for private vehicles in London, including areas in Hyde Park, Regent's Park, St James's Park, Battersea Park, Victoria Park, Hackney, Dulwich Park, and Peckham Rye fairground.

Car sharing
The AA advises commuters to share whenever possible to help ease traffic congestion.
Motorists can offer lifts without infringing their insurance policies, even if they accept a contribution towards running costs of the car. Under a carsharing agreement with the Government, insurance companies are prepared to include the giving of lifts in their standard policies as long as the vehicle is not being long as the vehicle is not being used to make a profit. Any pas-senger who accepts a lift will be automatically covered under the minimum legal requirements of compulsory third party insurance.

The National Bus Company says rie Nanonar bus Company says scheduled departures are being maintained, with some delays to arrivals, especially on inter-city routes, because of weather conditions and road congestion due

to rail strike. Accommodation

Accommodation The London Tourist Board has made special arrangements to help workers to book hotels in the city: call 01-730 3450 before 5.30 tonight for bookings over a range of hotels; or bookings can be made in person at National Tourist Information Centre, Victoria Station, from 9 am to 8.30 pm.

pm.

The Board says it is not baying any difficulty in finding people hotel accommodation. Ferry strike

Talks aimed at ending the Sealink dispute were in progress last night, but sailings are unlikely to return to normal immediately. For latest information call 01-823 4142 or Sealink offices at ports.

Because of rail strike, short-term car parks at Heathrow are under heavy pressure. Passengers should allow extra time for park-ing and checking in. Special coaches to Gatwick for British Caledonian inter-confinen-tal passengers are running during rail erike from the altitine's Victal passengers are running during rail strike, from the alrline's Victoria terminal, call 0293 25555. There are extra buses on Flightline 777 route between Gatwick and Victoria Coach Station during rail strike; also half-hourly coaches between Gatwick and Heathrow. Call 0293 502116 or 01-222 1234.

Airports

The Times list of best-selling books

PAPERBACK Bridgshoad Revisited 101 Uses of a Dead Cst The French Deutemant's Woman Traveller's Britain Eavesdropping A Oulver Full of Arrows	Evelyn Waugh Simon Bond John Fowles Arthur Eperon Nigel Roca Jelfrey Archer	Penguin Eyre Moihuen Granada Pan/88C Unwin Paperback Coronel
Not 1982 Fame is the Spur	Howard Spring	Faber Foniana
Unreliable Mempira	Clive James	Picador
Shaping_Rubir's Snake	Albie Ficre	Penguin
The Times list is based on tr	ade sales through	Hammick's to 400
and verified relail sales through	eight Hammick's	bookshoos and 40

Weather

troughs of low pressure approach NW Britain. 6 am to midnight

London, SE. Central S. E. NIV. Central England, E Anglia, Midlands: Frencing pationes cleaning signify, suriny periodor SE, light; max temp 0 to 20 /02 to

Roads will again be congested because of rail strike—allow ex-tra time for journeys. Channel Islands: Gry scany periods: at 55, hert, may temp 1 to 30 (34)

SW England, Wales: Say sumy periods record for patches at first, and S. light moderate; max semp 1 to 50 (24 to Wales, with several main roads still closed because of snow, although M4 now open. Mountain passes in N Wales still closed. Lake District, Isle of Man. NE England, Burders, SW Scotland: Dry Cloudy, some freezing fog patities at Irest wind S moderate: max temp 0 to 20 022 to 36F). Eductureh, Donder, Aberdeen, Glasgow, Central Highlands, Moray Firth, Argyll, H brelands: Bestly dry, Cloudy: wind S to SW, moderate to tresh; max Lemp 2 to 40 (36 to 36F).

NE. NW Scotlard, Orliney, Shetland: Closity cars or crists at times; wood SY, fresh to strong; max temp 4 to 6C 739 to 43F; Ortlook for tomorrow and Saturday: Dry in SE, econolina rain in NV: rear normal temps in N and W, less cold elsewhere.

SEA PASSAGES: S North Sea, Straits of Dover, English Channel (EJ: Wind S to SE, nedertle, locally fresh the slight or moder-ste. St George's Channel, Irish Sea: Wind fresh: sea moderate. Sur rises: 8.01 am Sun sets: 4 19 pm

Last quarter: January 16. Lighting up time Lordon 4.49 pm to 7.50 am Bristol 4.59 pm to 7.39 am Bristol 4.59 pm to 7.39 am Manchester 4.43 pm to 7.17 am Penzance 5.16 pm to 7.46 am

Hinckley, Northamptonshire, M1:
Lane closures from Loughborough
turn-off (junction 23) to exit 24
(Derby). A41: Congestion likely
between Warwick and Birmingham. A38: Congestion N of Worcester and SW of Birmingham.
A456: Long delays from Kidderminister and Birmingham.
North: A335: Alderley Road,
Chelford closed between railway
bridge and Curbishley Brook
diversion. A64: Roadworks at
Bramham crosscoads. M18/M180:
One lane each way, Humberside.
West: M5: Only hard shoulder
in use between junctions 11 and
12 near Gloucester. A38: Lane
closures at Marble Viaduct, Buckfastleigh, Devon. Yesterday emperatures at midday yesterday: C, cloud; fair, 19, 105, s, cun.

ciosores at Marbie Viaduct, Buck-fastleigh, Devon. Scotland: A82: Single line traffic with lights between Glen-coe centre and Strathclyde regional boundary, A83: Direr-sion and single line traffic with lights SW of Inversary. Roadworks may be cancelled to Roadworks may be cancelled if weather becomes unsuitable. Information supplied by the AA.

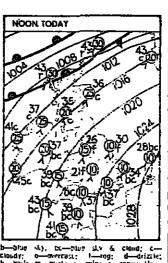


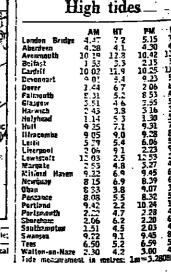
1,000 millibars = 27 53in. Satellite predictions

Figures give time of traibility where rising maximum electron, and direction of settling Asterish denotes entering or earning eclipse. MANCHESTER: Casmas 1518* 18 12-13-26; W. 60M**2M**: NE* Casmas 136R: 13n 151 6 35-6 70; S. 255-E. Casmas 1296: 17.43-17.50; MR**/*: 10N N Cosmas 188F: 19.50-19.37; SSW: 10N-10N N Lasmas 14R: 17-10-17.19; WSW; 40M**; MME. Seasal: 17.51-17.34; N; 10N; NW. Fredreimes supplied by Earth Salelille Unit, Aston University.

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Around Britain

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Abroad

MIDDAY: c, Cloud; f, fair, fg fog; r, rain; s, sun; sn snow; th, thunder. C F c 10 50 f 16 61 c 13 64 s 20 63 Madrid Maiorca Malaca Maita Merico City Merico City Montreal Montreal c 4 39 c -14 7 s -12 10 (23 24 f 16 61 Mosenw March Normbi Naple: New Ye Nice Osto Ottowa Paus Peking Peria Pagge s 17 63 s -7 19 19 65 13 55

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Guide to Information Technology

This report is published to mark the start of IT 82, a £1.2m year-long campaign by Government and industry, to create public awareness and overcome suspicions of the "information revolution".

What exactly is information cent of those interviewed had

Published 1785

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never heard of it.
The minister in question, Technology Year.

The officials responsible for promoting IT see their mission in very broad terms. According to the press release introducing IT Year 82, information technology is "the use of computers, micro-electronics and telecommunications to help us produce, store, obtain and send information in the form of pictures, words or numbers, more reliably, quickly and economically." That definition encompasses telephones, satellites, industrial robots, television, even elec-

tronic Space Invaders games. The Year is a purely national campaign — not to be confused with international efforts like the Year of the Disabled. Armed with £1.2m contributed equally government and industry, the organizers are trying to incite the British people and British companies to join what the chairman of IT 82 Alan Benjamin, called the worldwide Information Revolution.

The country which led the Industrial Revolution two centuries ago cannot hope to outperform the rest of the world again. But we must avoid falling hopelessly behind the leaders, now the United States and Japan. If we make no effort, Britain's relationship with the information-rich countries of the twenty-first century will be rather like, say, Mexico's relationship with Britain after the Industrial Revolution.

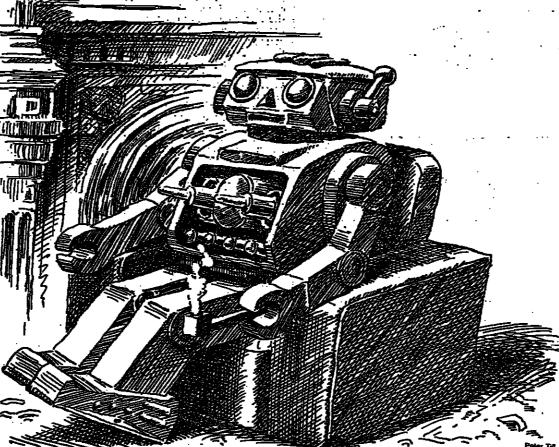
In theory IT 82 is aimed technology? It is considered equally at the general public important enough to com- and at industry. The public mand the services of a campaign will attempt to Government minister, and yet convey the excitement of in a recent MORI poll 80 per information technology in the home, at work and elsewhere: schools, colleges, shops, banks, libraries, hospitals. Mr Kenneth Baker hopes for a different state of affairs at the end of this, Information rather than revolutionary, soothing not strident; the idea is to persuade the deeply conservative British people that the familiar landmarks of life will be improved not swept away.

However, it is clear that unofficially the Government regards the industrial cam-paign as far more important. Alan Benjamin says the approach to companies will be "much sharper, saying 'get with it, you're behind.' It's a much harder message of encouragement to industry."

Many of those involved in IT 82 see this year as a last chance for British industry to keep up with the world leaders. And they do not just mean the IT business itself computer, electronics and nology for a whole series of communications companies — activities which are the fastest but tens of thousands of growing economic activities poorly managed firms making in our society," he said. "IT products or offering services is now at the centre of huge that have nothing to do with converging flows of investinformation, from furniture ment. Computing and teleto food. Almost all of them communications are convergcould improve their processes ing very rapidly, and in by installing a microcomputer association with them is the to store data and process whole of the entertainment accounts, or a Prestel ter- industry. minal to gain access to other people's databases, or a com- the same question quite diffe-puter-aided design or manu- rently. "The prime excitefacturing system, or even a ment is in the area of social the data and interpretation we full-scale robot.

almost a once-and-for-all opportunity to get its act together," says David Fairburn, director of th National Computing Centre. When I asked Mr Baker

about IT, he replied in indus- personal finances.



trial-economic terms. "The most exciting think is that it is the coordinating techactivities which are the fastest

Alan Benjamin answered systems," he said, giving as "For industry IT 82 is an example the old age be able to devote all our most a once-and-for-all pensioner who will be able to energy to the information prortunity to get its act sit in front of his home itself, rather than the search sit in front of his home information terminal in a few years time and ask it to explain in clear simple terms When I asked Mr Baker how social security and tax what particularly excited him legislation will affect his

Until now the effect of the so-called information explosion has been to overwhelm people with far more information than they can. handle. The means of sorting what you need or want out of the constant barrage of words, numbers and pictures have been hopelessly primitive and inadequate.

The result is that today people make crucial decisions on the basis of far too little information. The combination of communications and computing power represented by IT will feed each of us with really require. Then we will

respond more like humans.

Before the end of this century the Japanese are likely to introduce computers with which people can have a normal spoken conversation. Armed with sophisticated voice recognition and synthesis, and programmed to respond to the subtle nuances of human speech, the IT terminal will be able to comprehend and answer a command like this:
"I've got a meeting in the

centre of Leicester at 10 tomorrow morning. That will probably go on for two hours but better allow three just in case. Then I want to go on up to Nottingham to visit our branch there during the afternoon, and afterwards I need to get to Derby in time for an Computers are starting to become more "intelligent" and his family. He can meet and "friendly", as the jargon me at the station any time after 5.30 — no, wait, I think to make them think and he said 6.30. Give me a printout of all the trains I will need tomorrow. Mr Benjamin believes that

homes of the 21st century will have three separate IT sys-tems, for entertainment, communications and environmental control. Technically there is no reason why they should not be combined into one — and indeed the information may come into the house in a single cable — but he says: "I don't think people want to confuse entertainment with communictions."

The entertainment system vill provide a huge variety of films, music and TV pro-grammes, including "interactive" facilities like a far more sophisticated version of today's phone-ins. The communications terminal(s) will include the (video?) telephone and a means of access to many computerized databases, such as the travel expert we wanted to ask about trains to the Midlands. The environmental systems will control the home's heating, in re-sponse to outside weather conditions, so as to minimize energy consumption. Most of the system's hard-

ware will probably be imported, mainly from Japan. But the software - the programmes that make it operate - may still be produced in Britain. Although "genius" for some observers Britain's software - much quoted in the computer-electronic press — may be swept aside by the efforts the Japanese are making in this area too, most of those involved in IT82 believe that we can hold on to our lead in software and computer applications.

However, Mr Baker warns against counting Britain out of the hardware market too soon. After all, he points out, we are currently turning out more computers than the United States or Japan. In terms of volume, though not course value, Clive Sinclair's ZX81 is the best selling computer in the history of the world.

Index

- Page 2 The state of the domestic IT in dus-
- A historical an atomy of computers,
- telecommunications and electronics; An A-Z of Info T
 - mation Techno logy explains some () if the confusing j ar-gon of the industry and some of the milestones of discoveries and in yentions that gave birth to IT
- A-Z continued and some of the pit falls of choosing a p ersonal computer.

What are the fears, opposition and attitudes to IT?

- Page 6 The trades unitons and manageme nt
- Page 7 Privacy and darta

Mr sex in all-ap-ind nd-uns, sex his ved ons-ber-ck, 'A-'A-'A-tch

protection Page 8 Man and machine in Japan

IT is already affecting all our lives in some way. The next

pages look at developmen ts in:

Page 8 Health

- Page 9 Education, man u
 - facture
- Page 10 Office
- Page 11 Government speend-
- Page 12 Television scree:n
- Page 13 Money
- Page 14 Home and Leisuire
- Page 14 Events calendar for IT 82
- A look into the future — Clive Cookson, Pearcy Wright. IT in the High Street

Clive Cookson

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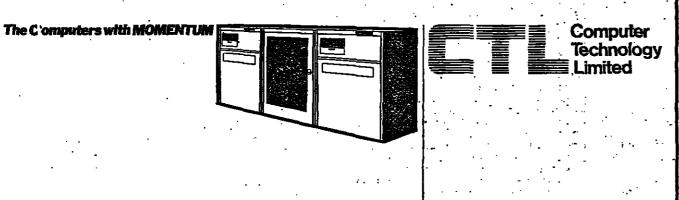
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INFORMATION TECHNOLOGY

The state of British information technology is outlined below by David Hewson. On the facing page Pearce Wright discusses the global background to computers, satellites and electronics

Worm's eye view of market

There are plenty of official figures outlining the way in which Britain has fallen badly behind in the rapidly-growing specialization of information technology. But perhaps the most effective demonstration of this fact can be had by visiting one of the many centres now selling the software of the communications revolution, everything from CB radios to home computers, Prestel television converters to aerials for receiving satellite

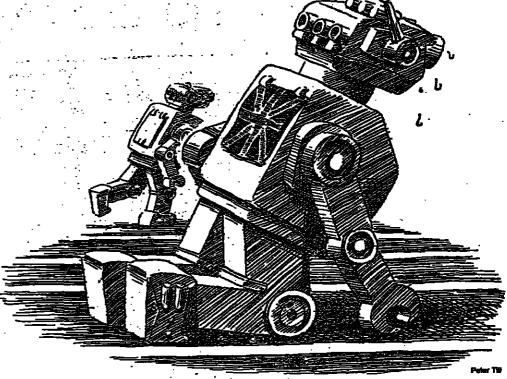
One is unlikely to find more than a handful of British-made products any British-made products any-where on view. This may not be a precise metaphor — such shops cater largely for home use or small businesses — but its experience is equally applicable to the larger and more wealthy world outside, the vast office systems of the near future. systems of the near future with their electronic mai systems, computerized tele-phone switchboards, and conference facilities linked

Britain's total trade deficit in information technology in 1980 was £300m. The figure is unlikely to be much changed today, and could have been worse were it not for the effects of the recession. And despite the efforts of both government and industry over many years, British manufacturers are no nearer possessing a significant world presence in the exports

The most startling area of domestic failure is in the sale of computers and peripherals. In 1979, 83 per tent of a total market of £1,241m went to foreign manufacturers. Two years ago, the sector employed 49,000 people in Britain. Today the recession and redundancies, notably at the state-backed flagship ICL, are thought to have reduced the workforce significantly.

This poor showing is not simply worrying in terms of the domestic balance of trade. At constant 1980 prices, the worldwide infor-mation technology market is expected to grow at the rate of 14 per tent from 1980 to 1985, rising in value from £54,400m to £104,700m. During the same period, according to a report prepared by the consultants, PA Com-puters and Telecommunications (Pactel) for the then National Enterprise Board, Britain's share of the world market can only be expected to remain at 5 per cent.

Pactel succinctly summed up the British problem thus: "Based on estimated 1979 turnover, about half of the world's top 50 IT companies are Japanese and Britain is in third place with six companies (including Rank-Xerox



can). "Apart from Rank-Xerox, the British-owned companies are GEC, ICL, Plessey, Thorn-EMI and Racal Decca. None of these companies has information through tele-the world scale or breadth of vision sets aroused a hearten-commitment to IT of leading ing amount of foreign inter-ing amount of the sing the American or Japanese companies, or indeed of European competitors such as British Telecom is working
Siemens or Philips. Furtheron several advances, includmore there is a scarcity of ing a machine codenamed
dynamic small and medium — Albert, which is due to be size high growth companies launched later this year will in the British IT industry, combine teletext, telex, word one marked exception being processor and Racal."

About half of British IT production is from compa-nies which are foreign-owned, usually by American information systems, a pros-interests, and the domestic pect which is already exercisindustry is, Pactel concludes, weakest in the highest growth areas such as small business computers and word processing, and strongest in the traditional markets such as defence and public telecommunications equipment.

One historical problem which has faced British companies in the field had been its high risk nature. This situation places on the state a large part of the responsibility for leading the sector forward, whether through such bodies as the National Enterprise Board (now renamed the British Technology Group after its recent merger with the National Research Developwith the Corporation)

through home markets for new devel-

British Telecom's Prestel videotext system is one of the few areas where a British product has consistently led

Its system of putting information through telelaunched later this year will telephone

The future for this sector lies in the eventual development of complete home ing media organizations both in print and in entertain-ment: British Telecom will also unveil its Gateway system this year. . This seems to be one area

in which Britain does not face an aiready established lead by competing nations.
The future of System X, the
computerized switchboard
system developed by British
Telecom is unlikely to involve such export potential. Some £2,500m will be spent between now and 1986 installing System X telephone exchanges.

But the difficulty for the system is that it has been developed in the context of a state monopoly

Corporation)

procurement of the Department or much swhich guarantee try's information technology rkets for new develpanel is highly critical of British Telecom's record. Mr Tony Davies, a member

"There isn't a hope in hell of people in Britain who supply British Telecom winning any significant export business," he said recently. "British Telecom is so far behind in accepting new technology that the products it has developed — System X for example — are far behind what a free private sector could have supplied and they will become quite incapable of standing up in export markets."

These fears are not felt so deeply elsewhere. Mr Joseph N. Pelton, who is on the staff of the International Telecomof the International Telecom-munications Satellite Organi-zation (Intelsat) forecast in his new book Global Talk that Prestel, System X and computer and electronic business terminal ventures from Racal and ICI were just a few of the promising British IT projects for the 1980s.

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For the immediate future Britain can expect to benefit from the growing interest and business and television satellites through British Aerospace's involvement in the European Space Agency satellite. There are also

satellite. There are also encouraging signs in the services industry, which is growing at a moderate rate.

How far Information Technology Year will enable Britain to turn these modest benefits into a real "catching up in the world high technology in the world high technology." up in the world high tech-nology race" remains to be seen. Certainly the stakes are high. Pactel gloomily predicts that, if current trends continue, we will face a trade deficit in IT of £1,000m by

and the biggest event is The Barbican

INFO 82, Europe's leading office automation show, opens on February 9th at London's newest exhibition centre. No other exhibition gives such a complete picture of the electronic office of the future. And this year's INFO will be

bigger than ever, with over 120 exhibitors showing the most advanced business information software specialists. technology - including computers, word processors and information retrieval systems. There's even a section "Software in the City",

with the latest developments from Britain's leading

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Milestones in a cheap and quiet evolution that will bring a consumer revolution

Computers

There are almost as many definitions of information technology as there are experts on the subject. So the evolutionary chart on page IV depicts some of the main developments from information

This scheme of outlining the origins of the industry was prompted by an observation by Mr Alex d'Aga-peyeff, the founder of the first British software firm more than 20 years ago, and managing director of Consultants in Information Technology. For he draws a distinction between "the old form of computing and the new information technology which has come with advances in the silicon micro-cir-

The present wave of information technology flows from the marriage of microelectronics, telecommuni-cations and computer programming. This merger has transformed computing and data processing from an expensive and specialized activity into a cheap consumer market.

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electronic

In particular it has produced the personal computer; micro-electronic packages to enable telephone and tele-vision sets to be plugged into computer information net-works; and cheap and powerful electronics units for improving the large and medium-scale computer systems that reside at the centre of big industrial, commercial and governmental organiza-

In addition, the micro-computer has turned the idea of using semi-intelligent ners of the modern elec-robots for manufacturing tronic computer. One of into reality. One result of them labelled SSEC, built in that development is seen in the devastation of certain European industries by Japanese enterprise. And it is this innovation which is causing most anxiety among specialists in Britain like Alex d'Agapeyeff. He says it is no accident that the Japanese came from behind to lead in the volume production of micro-circuits.

Confirmation of their success, if it is needed, is shown built for sale, based on the clearly in the analysis of the Manchester University Mark world's 50 top information 1, was delivered by the technology companies listed in the chart prepared by the 1951. It had 4,000 electronics Pactel examination in a valves packed into racks in a ecent survey. Not one of the battery of air-conditioned

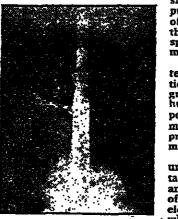
Japanese firms would have cabinets which filled a large wires forming part of a mense amount of the cost of transformed the practice of in the size of satellites, that been included in a similar room.

The produced 20 rectangular grid. These core introducing computer sysdata processing from an demand would still need introducing computer sysdata processing from an demand would still need to be a still need to

with the invention by Dr J Presper Eckert and Dr John the University of Pennsylva- tor.

However, the first invenand Europe supported from with complex weapons calculations and for deciphering

considerable competition between the design teams in the early days. And a counter-claim exists that a machine called Colossus, built in Britain, was the first electronic computer.



However, there are more important claims for at least two machines completed in 1948 to be the real forerun-IBM's laboratories, and the other known as the Manchester University Mark 1 had the programmes of instructions stored internally.

Many major technical advances were needed to make cash desk of a shop.

possible the transfer of The memory section does computers from the university and military laboratories to commerce and industry. The first electronic computer Ferranti company in February

The life of the first generation of computers was The electronic computer short because of their size, era was ushered in by 1946 cost, unreliability, limited huge power consumption.

That innovation was the most important among many The handling, directing other crucial discoveries in and processing of the flood tion was one of several other crucial discoveries in projects in the United States hardware and software responsible for increasing the

etching several transistors and administrative appli-and other components on to cations. a piece of silicon the size of a The part which regulates postage stamp. That birth of the memory and the arithmethe integrated circuit soon brought a new generation of section. It regulates the flow small, desk-sized mini-com- of information between them. puters; and the larger models and interprets the instrucof computers also entered a tions programmed into the third generation of higher memory, and accordingly, speed, more powerful dispatches data once it has

grated circuits, crowding entation of words and num-hundreds of electronic com- bers on a television display of ponents on one silicon chip, high-speed printer is the making possible the micro-most widely known type. processor and then the Whereas the actions of micro-computer.

underlie the plodding compu- the computer's electrical tation of the first computers impulses; so are the comand the microsecond speeds mands to an aircraft's steerof the current range of ing mechanisms from an electronic miniatures; all of autopilot, or artificial voice which need five basic sec- commands or the directions to another computer.

The input section translates information from a variety of devices into a code that the computer understands. In the early designs there were only punched paper tape and punched card inputs. Now there are the familiar keyboard — and — TV units; magnetic tapes, discs and drums, optical scanners reading the magnetic code on cheques or the digital code on goods at the

what its name says. It stores information until it is needed by other parts of the machine. The most successful memory in modern computers for nearly 20 years has been the magnetic core variety, consisting of thousands of tiny iron beads.

memories are being replaced by cheaper, smaller and higher capacity semiconductor memories on chip. In storage for information and addition to these main memories built into the computer. Mauchly with their machine But the invention which auxiliary memories in the ENIAC (electronic mumerical consigned them quickly to form of magnetic tapes and integrator and calculator) at the museum was the transisvery high capacity needed for

bulk storage of information.

of information through a computer is done developing new types of scale computers in use in the powerful machines to help world from 6.000 20 years world from 6,000 20 years complex calculations are ago to nearer 250,000 today.

But by 1960 development programmed for largely engineers had devised the scientific and engineering Nevertheless there was beginnings of the processes, purposes, and the data is onsiderable competition using photolithography for manipulated in commercial

> Then came the major section. But the output can technical leap into miniaturization with large-scale integrated circuits, crowding entation of words. The presentation of words been processed to the ouput robots on a car assembly line Yet the same principles are one form of output for

> > Nineteen-sixty was the turning point for a lot of key developments, and that year the journal Communications of the Association of Computing Machinery had the following to say about one importemerging subject: "A umon business-oriented common language, called Cobo, for use in writing instructions on. business-type problems for any electronic digital computer, may soon be available. Cobol, which is written in English and independent of Conference of Data Systems

The purpose of a programming language is to make the writing of programmes

because of programmes by the same toler. Languages ..." writing of programmes cheaper and easier. By defi-Each tiny iron core is at an nition that means more cations techniques and net- for their domestic services. intersection of two hair-thin reliability, because an im- works to computers has

introducing computer sys-tems is still in the correction of errors. In the early 1960s the production rate for a programmer writing the programme for a business application was about £2 per finished line of machine instruction. A business application requiring, typically, 20,000 lines of instruction code therefore cost £40,000, and more than likely em-ployed four or five people for 18 months to two years.

That level of productivity would be completely unac-ceptable today. Improveautomating the design and checking of programming systems. As a result there is large number of advanced computer languages such as Fortran, Cobol, Basic, PL-1, and hundreds of software packages for particular applications for personal computer users or businessmen to buy off the shelf.

But the great skill remains in designing the original programmes. The methods to make that easier have reduced the costs nearer to 20 pence a line of code.

Satellites

The merger of computers, micro-electronics and telecommunications has created cations can be regarded as the

computers and micro-electronics to telecommuni- A rece office switchboard. Computer their ability to store and control the organization of telephone and

By the same token, the application of telecommuni-

on demand. That change has to be placed in the part of the demolished the previous geostationary orbit which has demarcation lines between the computer manufacturer supplying specialized office and industrial products and the telecommunications organizations providing phones and switchboards, cable networks and radio

communications links.

The full potential of computers was opened when computer data transmission was first accomplished over earth links (co-axial cable and radio channels) and later by a satellite link encircling the planet. In the past decade the capacity of civilian inter-national satellite communi-cations links has jumped from 150 to more than 15,000 circuits. The growth of satellite communication has been spectacular and shows

no sign of easing.

In the short time that nology. Since the origin of the telephone, distance has satellites have flooded the been the major element in earth with messages they have become an integral part fixing tariffs and in curbing of the activities of organiza-tions like news agencies, cations networks. With the introduction of satellites, it is press and broadcasting serno longer an important vices, business, banking, commerce, agriculture, minfactor. In a recent book, Global Talk, Dr Joseph ing, aviation, navigation, meteorology and entertain-Pelton says as telecommuni-cations services have become ment. Yet fewer than 40 of faster, they also have become the 2,200 satellites launched cheaper. A one-page telex sent from New York to London cost today about \$12. A one-page letter or technical since 1957 are for communications; and those can be divided into four categories drawing sent by the Intelpost network is about \$5; and a

by use. There are two global sysa single information industry tems: the Intelsat organizaso sprawling it almost defies tion, which has more than description. Telecommuni- 100 member countries and Intersputnik network the elder statesman of the established by the Soviet three technologies because it Union. At the next level pervaded almost all corners come a number of developing of the globe with electro-domestic and regional satel-mechanical telephones and lite systems. Third, there are undersea cables long before the specialist marine and electronic components and aeronautical satellites for then computers were in communications and naviented. gation purposes. Fourth are But the application of the military communications

A recent study by the cations has changed com- American National Aeronau-pletely the design of the tics and Space Adminispletely the design of the tics and Space Adminis-telephone bandset and the tration forecasts a demand in the United States for more systems in particular, with than 300 video channels, more than 20 million more any make of model of control the organization of telephone channels and an computer, was presented in information, are adding a annual data volume of 40 the final report to the new dimension to the pro- million terabits (tera is the cesses used for the distri-bution of television, mail, million) within 20 years. That is equivalent to the capacity of another 100 of the current type of satellites which RCA and Western Union operate Even allowing for advances voltage of about 0.5 volts was

generated between the two demand would still need between 30 and 40 satellites contacts. The little — understood material was silicon. And the to be shared with 50 other

station leased from

Communications

bined use with

and television, is forcing the pace in information tech-

three-minute telephone call

on the public network costs as little as \$3.16. Twenty

years ago public overseas

Some years ago Dr Marvin

Kelly, then director of the Bell Telephone Laboratories

in the United States, called

rwo of his senior research

physicists to his office to

witness an experiment by

another staff member. The

demonstration was conducted

with a rectangular black block, smaller than a cube of

sugar, which had little metal

device was made from a then

little — understood material.

calls were 20 times higher.

Electronics

computers

сотрапу.

demonstration given by Dr Russell Ohl showed the first countries. There are four operation of what electronic domestic satellite systems in engineers today call a p-n America. In addition to junction, which is the electwestern Union and RCA, a trical effect on which the joint service called Constar microelectronics industry is founded. is run by two giant telecom- founded. But that original munications companies, AT experiment occurred in 1940. munications companies, AT & T and GT & E, on a space It marked only the start of from the the research that gave birth Satellite to semiconductor electronics by an aiready famous team of Corporation (Comsat). But solid state Physicists at Bell Laboratories, and which led the most recent network is a compared to the state of the st first to the discovery of the transistor; carning Doctors Walter Brattain, John Bar-deen and William Shockley a Nobel prize for physics in There is a unique aspect of 1956. satellites which, with their immense capacity and com-

The impact of that original demonstration of the intriguing properties of silicon is told in a personal account of the discovery of the transistor by Dr Branain. Subsequent research produced a number of materials which can be endowed with the unusual qualities needed to make p - n junctions.

tractive because of its abundance, being one of the main constituents of sand. Its value to the electronics engineer is that it can be made to be either electrically conducting or non-conduct-

ing.
The trick is to make a crystal of pure silicon and then introduce the timest trace of a special impurity into it by a process referred to as "doping". Only a microscopic area is doped with the impurity, but it is enough to cause a deficiency of electrons in this small zone to form a so-called p, or positive, zone. An adjacent area is doped to get a surplus of electrons creating an n, or negative, zone. Hence the name for the complete arrangement is a p-niunction.

More important, when two n zones are separated by a p zone they form a transistor, which is an electronic switch, Many thousands of transistors can be formed on a single chip. Moreover 250 chips can be made from one disc of silicon, 3 ins in contacts at either end. The diameter and one-fifth of an inch thick, which has been sawn form a silicon rod 3 ft

When a band of flashing There is no other manufaclight was allowed to flicker turing process like it. Each over a narrow region near disc is smoothed and then the centre of the block, a tiny continued on next page

Data, voice and text.

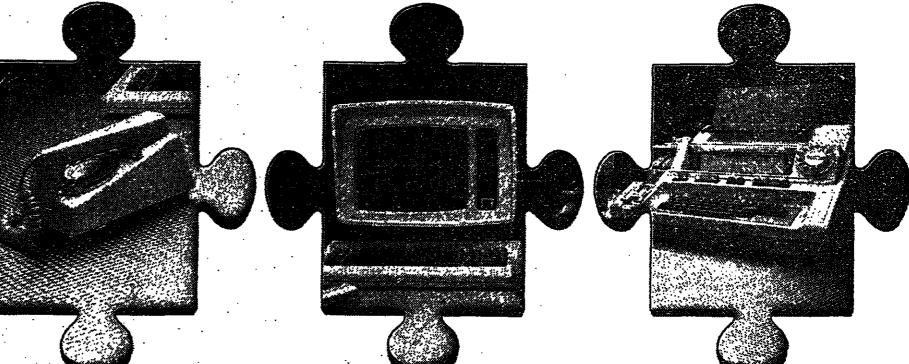
In the form of data terminals, telephones and telex, these separate systems are indisputably the three prime methods of business communication.

The trouble is, although each system becomes increasingly sophisticated as technology improves, there has always been one major drawback. An incapacity for each of the systems to communicate with the others.

In effect, there have been barriers preventing intercommunication caused by the varying communication patterns and characteristics of each of the systems.

Meaning that they've all spoken a different language. Until now.

For ITT Business Systems has introduced a common denominator in the form of new technology which uses the Information Transfer Module. ITM for short.



Inly we can interconnect them so they can intercommunicate.

In converting the different signalling languages of each of your communication systems, the ITM links them all up together by effectively removing the barriers which have so far kept them apart.

But to explain precisely how it all works would take a technological age.

Suffice it to say that thanks to our innovative approach and our experience in data, voice and text systems, the phone can now talk to the telex, the telex can speak to the data terminal and the data terminal can converse with the phone.

The applications are unlimited.

And surprisingly enough, this apparent miracle can be accomplished using your existing equipment.

No need for any replacements. We will advise you how to add this new technology to your current systems.

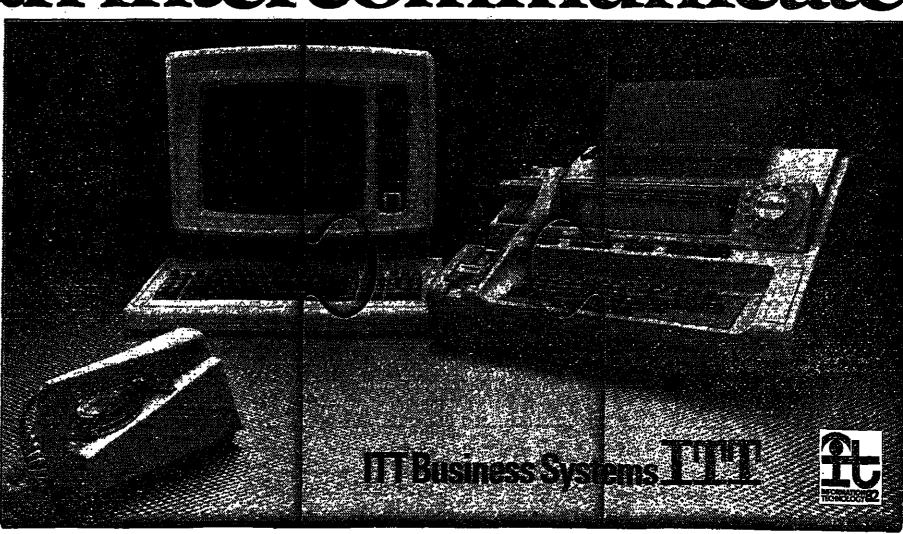
Your present telephone, telex and data network systems are simply waiting for Information Transfer Technology. And in order for them to talk to each other, all you have

to do is talk to us. Write for details to ITT Business Systems, Lion Buildings,

Crowhurst Road, Hollingbury, Brighton, Sussex BNI 8AN. We have the technology to transfer all the information

quickly to you.

ITT BUSINESS SYSTEMS IS THE BUSINESS COMMUNICATIONS ARM OF STANDARD TELEPHONES AND CABLES PLC.



Artificial Intelligence (AI). Although it may seem that computers have taken over they remain tools controlled by people. So-called computer errors are really caused by humans giving a computer the wrong instructions. Al would allow nons. Al would allow a machine to learn, and then take decisions on the basis of experience. Widespread application is held up by two things: the need for vast processing power, and uncer-tainty about how the human prain works. Office. Com-

Automated puters began automating the accounts office 30 years ago, and now word processors are and now word processors are automating typing. But that is just the start. The words can be sent by electronic mail, along with graphics, and discussed over a voice and vision link.
Information can be filed
electronically, then recalled
selectively for automatic
collation. Integration will be a key factor. In the office of the future all sorts of

Continued from page 3 highly polished to the quality of scientific optical glass. A microscopic scratch on the surface renders subsequent work on the material valueless. The discs are heated to between 1,000 and 1,200° C to create a hard coating . In the next stage a layer of a polymer material sensitive to ulraviolet light, and known as a photoresist, is applied. Next a tiny photographic plate or mask, of the chip's ciectronic circuitry, scaled down from a drawing 250 times bigger, is used to etch a pattern of electronic a pattern of electronic components by photo-lithography.

But the technology of silicon chip fabrication is moving rapidly to increase the number of components on existing large scale intergrated circuits of 10,000 to 20,000 to very large-scale intergration of 100,000 to 200,000 components and

Pearce Wright

Basic. A computer language, from Beginner's All-purpose Symbolic Instruction Code. Symbolic Instruction Code. Computers only understand, machine code languages, but high-level languages like BASIC enable programs to be written in something approaching plain English. Other high-level languages include ADA, CORAL and PASCAL, as well as the sci-fisounding ALGOL, COBOL and FORTRAN.

Bit. The basic unit of

Bit. The basic unit of computing an abbreviation Clumsy for normal purposes, this two-state notation allows a computer to process data by a series of on-off switch-

by a series of on-off switching actions — something which electronics can do very quickly. Similar digital techniques are now being applied to transmitting speech, recording music or handling television signals, where benefits include better reproduction and greater processing capability. A group of bits is called a byte (usually eight bits).

Cmos. A type of semiconducof increasing tor device

A-Z of Information Technology

plex. CMOS circuits (from computers and word pro-complementary metal-oxide cessors — can be taken out semiconductor) are similar to and stored, like a gramo-allows the novice to make complementary metal-oxide semiconductor) are similar to MOS, but have very low power requirements. Watches and calculators use CMOS, so you do not have to keep changing the batteries, and as more CMOS circuits become available there should be a wider variety of portable electronics.

Cambridge Ring. A local area etwork developed at Cambridge University. Central Processing Unit (CPU). The part of a com-puter system which controls all the operations, and car-ries out the arithmetical and logical functions. A micro-processor is a fairly simple CPU on a single chip. At the other extreme is the number cruncher, a computer which handles very complex calculations.

Data Base. Any collection of

equipment — telephones, importance. Integrated circuits (or silicon chips) are of data is often on magnetic data is often on magnetic discs. Information is added or accessed at high speeds linked together to work as a siegle system.

| Disc. Storage of computer data is often on magnetic discs. Information is added or accessed at high speeds with read-write heads. Floppy discs — popular for small

phone record. Increasing use is being made of the Win-chester disc, which unlike the floppy cannot be removed, but which may cram in 50 times more data.

Expert Systems. If you can persuade experts to tell a computer everything they know, anyone can tap into the information so as to the information so as to become, in theory, experts in turn. The snag is that expert knowledge may not be amen able to computer storage: how do you codify judgment and intuition, as well as

Fibre Optics. Instead sending electrical signals over copper cables, infor-mation can be transmitted as Data Base. Any collection of information, even a bulging filing cabinet, is a data base of a sort. In the would of IT, data bases are files kept in an orderly, electronic form, which can be accessed by remote users following a defined procedure.

Disc. Storage of computer data is often on magnetic discs. Information is added or accessed at high speeds with read-write heads. Floppy discs — popular for small

mistakes without chaotic or consequences. disastrous Confused users may be able to press a "help" button, which will call up a series of prompts on the display screen to lead the way out of

Graphics. Anything in representational or pictorial form, rather than letters or numbers, is called graphics in IT. Computers can turn data into Computers can turn data into histograms or curves, and show them on visual display units or draw them on plotters. Television systems like teletext and viewdata are progressing from the display of primitive graphics, made up from a matrix of dots, towards smoothed characters alpha-geometrics, and ters, alpha-geometrics, and eventually alpha-photo-graphics. All in full colour, of course.

the things standing outside an ironmonger's shop, but today hardware is the physi-cal equipment which makes up a computer installation, round.

including the CPU and all the peripheral units. Software is the programs which tell the hardware what to do, and can include firmware, a permanent form of software. The people who write the programs and operate the computers are sometimes called liveware.

Information Technology (IT). Favoured term for the convergence of techniques in computing, microelectronics and telecommunications to produce, store, access and send information of all kinds, send information of an kinds, whether pictures, words or numbers. Obviously significant in business, but also invading the home: teletext and personal computers are IT, but Hollywood movies: on a video machine are probable.

a video machine are probably not. .
Interface. A plug and socker is an interface, but if comis an interface, but if comis an interface, but if to work puter equipment is to work together it must be compatible in software terms, as well as electrically. An interface unit may, therefore, convert data from one form to another so that different to another so that different units can be combined. The man-machine interface is as much a philosophical approach as a matter of hardware, and aims to ensure that menda control machines. that people control machines, rather than the other way

computing speeds, but the need for extremely low temperatures has so far made temperatures has so far mate the technology impracticable outside the laboratory. The Josephson junction has to be cooled by liquid helium, but can then switch at a speed of less than 100 picoseconds (a picosecond is one million-millionth of a second). Promising, but experimental.

boards have found a new role as input devices for computers and word processors, and to handle other control tasks. The typewriter-style "qwerty" keyboard is still the equipment over the existing telephone wires, creating a star network rather than a ring. Signals go to a central PABX to be processed and sent on to their destination. "qwerty" keyboard is still popular, but hand-held keyboards — usually called keypads — arrange the keys in a variety of ways. A hexadecimal keyboard, or hexadecimal Reyodard, of hex pad, is used with microprocessors. It has 16 digits: 0-9, plus A, B, C, D, E and F, to represent 10-15 as single

Josephson Junction. The faster a computer can switch data, the faster it can complete a calculation. For more than 20 years the phenomena of superconductivity have seemed to offer the prospect of unrivalled computing speeds, but the computing speeds, but the computing an item correct, or selecting an item. The Light Pen. Another way of screen, or selecting an item from a list of optional functions. Another form of light pen, sometimes called a wand, reads data in the form of thick and thin lines which form a bar code. Used at supermarket checkouts and for other data input

purposes.
Local Area Network (LAN).
By installing a special cable
in a building or group of
buildings, computing and
communications equipment Keyboard. After years of being tapped by typists and teleprinter operators, keythe equipment over the

Mainframe. The largest type of computer installation, needing a specially constructed, air-conditioned

Landmarks over 300 years

The products of information technology are things like office automation, microprocessor controlled washing machines and cookers, industrial robots, video telephones, electronic games, automatic bank cash dispensers, electronic mail and large data processing systems — to name a few. But they emanate from a gradual merging of the four technologies listed below.

Computers

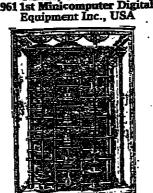
1642 Mechanical Calculator Blaise Pascal, France 1833 Calculating Machine (analytical engine) C. Babbage UK

1889 Punch Card Tabulating Machine H. Hollerith, 1939 Mark 1 Digital Computer H. H. Aitken, USA and

1946 Eniac (Electronic numerator integrator & computer) Moore School, University of Pennsylvania, USA 1947 Commercial Electronic

J. Mauchly USA 1948 Edsac (Electronic Delay Storage Automatic Calculator) M. V. University, UK





The first "computer", the analytical engine designed

Electronics 1898 Magnetic Recording V.

Poulsen, Denmark 1919 "Flip Flop" (binary) circuit, Eccles & Jordan, 1948 Transistor Bardeen,

Brattain & Shockley, 1952 Integrated circuit concept G. W. Dummer,

1958 Laser A. L. Schalow & G. H. Townes, USA 1959 Integrated silicon circuits J. S. Kilby, USA 1962 Silicon Chip S. R. Hofstein & F. P.

Heiman, USA 1963 Electronic Calculator Beil Punch Co., UK 1970 Floppy disc IBM, USA 1972 Microcomputer Intel,

1972 Video Games Magnavox,

Telecommunications 1837 Morse Code on off telegraph system, Samuel Morse, USA Submarine Telegraph

Cable W. Siemens, Germany 1876 Telephone Alexander Graham Bell, USA 1896 Wireless Telegraphy G. Marconi, Italy

1925 Television J. L. Baird, 1945 Arthur C. Clarke proposes communications satellites

1948 Holography (three dimensional pictures) D. Gabor, UK 1950 MODEM (made high speed data transmissi possible) MIT & Bell

Labs, USA 1957 Sputnik 1 1st artificial satellite, USSR



Code first Morse practical demonstration ed Baltimore Washington, 1844.

1960 Electronic telephon switching system Bell labs, USA 1966 Optical Fibre

Communications K. C. Kao & G. Hockman, 1960's Private networks 1970's Public data networks, local office and

factory networks

Word processing 1714 Typewriting history begins with a British

patent to Henry Mill for ... an artificial machine for impressing letters on parchment . . . " No details survive of

invention. 1829 First machine capable of practical work. Called a Typographer. William Austin Burt, Detroit,

USA. 1867 First typewriter in constant use. Christopher Latham Sholes. New York, USA. 1872 First electric machine,

consisting of a printing wheel, invented by Thomas A. Edison. Later developed into the ticker-tape printer. 1873 C. L. Sholes signed contract with E.

Remington & Sons, gunsmiths of New York, USA. 1909 Introduction of portables. 1937 Xerography.

opik-ocr

Electrostatic images transformed into a powder image and fixed by fusing. Chester Carlson. USA. 1961 Golf ball machine introduced by IBM,

USA. 1963 Ink Jet Printing. Method of forming, charging and directing ink electrostatically to form words. R. G. Sweet, USA. Technique extended by A. M. Lewis and A. D. Brown.

Research by Pearce Wright. Main source: Electronic Inventions and Discoveries by G. W. A. Dummer) published by Pergamon Press.

Please send me more information on the new EP 320. □ Please ring to arrange a demonstration. □ Send to: John Richards, Minolta (UK) Limited, 1-3 Tanners Drive, Blakelands North, Milton Keynes MK14 5BU. Telephone: (0908) 615141 Telex: 825746

_Nature of business. Company____ Address_

_Telephone

To succeed in any business you've got to have star qualities. The new Minolta EP 320 has so many, it will embarrass bigger machines. It takes a wide range of original sizes from A3 to A6.

And being a plain paper copier, means no special paper is needed.
You can use your own headed paper, or even copy on film.
But best of all is Minolta's unique Micro-Toning System,
which produces copies so close to the original, it's extremely hard to tell the difference.

This amazing quality could be yours. Just think what having such a star in your company will





Improve your image.

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Rather imprecise term for: (1) a complete but small computer based on a microprocessor; (2) a microprocessor and its peripheral chips mounted on a printed-circuit board; (3) a single chip containing all the circuitry for a micro-processor, RAM, ROM and input-output functions.

Non-volatile. Magnetic storage (fapes, discs, ferrite cores, bubble memories) is non-volatile, meaning the data is retained when the power is switched off. Semionductor memories, such as those used in pocket calcu-lators, are normally volatile: switch off and you lose all the data. Some volatile memories are fed with minute amounts of power

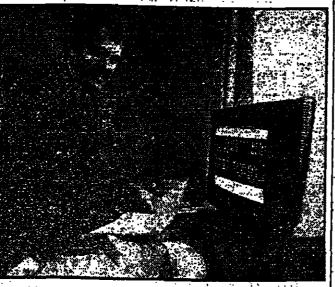
continuously to make them,

in effect, non-volatile.

Operating System. Not hardware, but software - the set of instructions in a computer which supervises and con-trols input-output functions and the running of programs which handle specific appli-

Optical character recognition (OCR). Putting data into computers could be speeded up if information could be read automatically from documents, rather than put in laboriously by keyboard. OCR tries to do this. Early devices could only read marks (for example, to check pools coupons), but modern equipment can handle typed pages. Recognizing handpages. Recognizing h writing is more difficult.

Pabx. As well as handling telephone calls today's private automatic branch exchange (PABX) can provide such facilities as abbreviated users cannot change. See his can read, but which users cannot change. dialling, automatic re-call of bust lines, queuing of incoming calls, conference facilities, and the switching of data as well as voice. The dialogue conference falling cost. The 64k RAM be used by one person at a lows users to change one dialling, automatic re-call of bust lines, queuing of in-



Videotext — information on a television screen.

vice). In future, people getting a wrong number will know it's high technology which is letting them down. Peripherals. In order to work, a computer's central processing unit needs peri-pheral equipment. This includes magnetic discs or tapes to store information, card or tape readers to feed infor-mation in, printers to print out results, terminals to allow communication with the computer and other units, and plotters to plot out graphics. Peripherals may now contain some processing ability themselves, and might be graded intelligent, smart, or dumb.

مكذا من الاحل

Query Language. Until re-Query Language. Until re-cently, only trained people have been able to communi-cate with computers. Now there are over 100 query languages, which aim to break down the barriers. Most allow limited English commands to be accepted by the computer, though some claim to make completely free-form English acceptable.

Ram and Kom. The random access memory (RAM) allows information to be stored or accessed in random fashion they want. Good value if you in a very short time. A read- are prepared to follow the

electronic PABX will help stores 65,536 bits, but will speed the departure of POTS cost the same as the 1k RAM, (Plain Old Telephone Serwhich stores only 1024 bits. which stores only 1024 bits. Robot. Automatic: assembly systems can usually perform a single task, but robots can be programmed to do several, within limits. They are of most use for repetitive jobs

most use for repentive jous in unpleasant environments. Artificial intelligence will widen their scope, but the walking, talking robots of fiction are unlikely to take over in the factory, let alone do the housework.

Silicon. The basic material for many semiconductor devices, including the pervasive silicon chip, or integrated circuit. Although silicon is expected to remain the main material for many years, gallium arsenide can be used as the basis for logic circuits which operate at very high speeds, without the need for superconductive cooling, as with the Josephson junction. Software. The programs which give instructions to the hardware. Early programmers soon began to save time by building up libraries of sub-routines to carry out standard operations. Computer users can now shop around for software packages, which are ready-made sets of programs to do specific jobs, such as payroll, direct mail, or word processing. Like a package holiday, software packages cut costs by giving the majority what

crowd.

simultaneously, each operat-ing from his own terminal. The computer processes The computer processes parts of separate jobs in sequence, but users gain the impression they have the computer to themselves. Time sharing is still a valuable facility, but distributed processing has put more power at the terminal, and personal computers allow users to undertake simple computing tasks completely independently.

User friendly. Aware that most people think a computer console is about as easy to understand as the flight deck of Concorde, manufacturers are putting much effort into taking out the mystery. Touch a button, and the screen will display a menu, from which the user can select the service he wants. More button-pushing will lead through a series of instructions. Along with forgiving systems and query languages, the user-friendly approach means that even beginners can come to terms with a computer.

Very large-scale integration (VLSI). The first integrated circuits put only a few components on a chip of silicon. Next came mediumscale integration (MSI), with hundreds of components, and then large-scale integration (LSI), with thousands. Now VLSI puts as many as 100,000 components on a chip. Designers see no barriers to integrating a million components.
Videotext. A generic term to describe TV-based infor-

mation systems. Teletext, which includes the BBC's Ceefax and ITV's Oracle, broadcasts "pages" of data which can be selected with a suitably modified television

Viewdata. Links the TV to the telephone and gives a more varied, interactive service by connecting users to a central computer. Prestel, British Telecom's viewdata service, is for public use, but many businesses are also using private viewdata sys-

time, so work would pile up. With time sharing, many people can use a computer simultaneously, each operations of all the can ask "What if the price of oil rises by 10 per cent?", push a few buttons, and see whether he can survive the next energy crisis. A powerful planning aid, though viewing the results may call for strong nerves.

Work Station. What every smart executive will be sitting at, instead of a desk. As well as a telephone and personal computer, it's likely to include facsimile, data terminal, videophone, viewdata units, and much more. The very essence of IT chic.

Xerography. The technology which brought plain-paper copiers into virtually every office. Despite rumours that nent, copiers are likely to go on flourishing. They may even become electronic mail terminals, sending and re-ceiving text and graphics to and from many locations.

X is also the international symbol in telecommunications signifying digital operation, in which the 0s and 1s of computer language are used to switch telephone calls and transmit both voice and data. System X is Britain's digital exchange family, and British Telecom is launching a digital communications service called X-

Yield. A key factor in the falling cost of integrated circuits. Hundreds of circuits are made at the same time on wafers of silicon, passing through a complex series of processing steps. At the start of production many devices fail, but yield goes up as manufacturers move down a learning curve. Prices drop dramatically, because more good products are produced without any additional cost in materials or processing.

Zap. The programmable read-only memory (PROM) can be programmed using special equipment. This is known as "PROM blowing". When the program is erased, the PROM is said to be "zapped".

It's a job to choose

with some exceptions, only

offer a 90-day guarantee on

unless the company has a

nationwide network of some

kind. This is one reason why

it is all the more important to buy equipment, and espec-

cially programmes, from well established reputable compa-

cure all ills, but many of these

companies vanish as fast as

automatically increase pro-

ductivity but they can increase efficiency. The first

thing is to have a good look

microcomputers since the early days in 1963, believes there are five basic questions

a customer should ask him-

already works without a

computer?; If I buy a com-puter would I need to take on

extra staff, and if so would

productivity?; What would be the return on the capital investment, in terms of

productivity, and how long

would it take to repay the

return on the extra invest-ment?; Will I be able to reduce my staff? The answer

to this, according to Mr Robinson is "definitely 'no"; Am I really trying to

dodge the issue? In other words do I think a computer

there be an increase

do

they have appeared.

Computers

The best advice to anyone seeking a micro-computer for business use is — beware!

Choosing a personal complicated it all be-Choosing a personal com-puter, other than one to play games on, is to join the new comes. Even after you have chosen your computer, its printer, additional disc drives, and the programmes nigh street jungle warfare. there are still many unsus-pecting shocks. Generally speaking most companies. It took me a long time, spread over nearly two months before I was able to

pinpoint the machine of my choice. During this period I visited many of the High Street shops and so-called "computer centres", talked to dozens of salesmen, and read through piles of manufacturer's blurb and scanned many a computer magazine Personal Computer and Micro, Decision — two of the best sources of information. It is quite obvious that there are far too many cowboys selling both hardware - the computers and associated equipment as well as the software — the programmes to make the computer do what you want it to do. If you are only interested in games the problems are reduced as the knowledge and effort which have gone into producing computer games is totally out of proportion to that spent on the more serious uses for nies. So many software houses have sprung up over night offering a wide variety of programmes which apparently small computers.

Many sales assistants seemed to know little about many of their own products. When unable to answer relatively simple inquiries a more senior person, usually the manager, was called. The stock attitude which was all too common was that the manager would immediately try to "sell you up", in other words try to persuade you to buy something more elabor-ate (according to him) and much more expensive than what you had first been interested in. With the Shop Computerland, an expanding network of branches up and down the country. Mr Robinson, who has been involved with software or actual grammes the situation comes even worse for the innocent buyer.

The computer magazines are full of stories about people who have bought programmes for accounting, stocktaking or word processing which simply cannot do the job they were led to believe. Admittedly there is an enormous complexity of equipment but the customer should be able to expect some basic guidance.

On word processing programmes, which was my own straightforward as I might have imagined, judging from the dozen or so programmes on the market. Did they all have capital and lower case letters for display on the screen? Was it possible to have more than 40 characters (too few) per line, or could it go to 80 per line? How many is some kind of magic wand lines per "page"? What to solve my own inefficiency? editing facilities? How com- (It is not.)

Mr Robinson says that most small businesses do not need a computer for accounting or stock control unless they have a minimum turn-over of between £50,000-£100,000 a year. He adds: 'You must be able to trade off the extra profit against taking on the extra staff to operate the computer, not to mention the initial capital

the hardware. Luckily there outlay and maintenance seems to be a trend for giving longer guarantees. Most companies offer a functions performed by a maintenance contract which small computer is mailing and Mr Robins. usually costs at least 15 per and invoicing and Mr Robincent per year of the original son believes it is possible to capital outlay — quite ex buy a system for between pensive. The small print of £5,000 and £7,000 which these contracts also needs would cover the needs of the pitralis over the exact meaning of "24-hour service" and similar phrases. It is no good buying a commuter form

facing the customer is the question of documentation for both computer and programme. Manuals are on the whole badly written, often too full of jargon, and quite often have many mistakes, particularly those dealing with the actual programmes to run on the computer

The Osborne Computer Corporation produces some of the best software and some of the most readable and understandable manuals. Adam Osborne, the man behind the company, a kind of American answer to Britain's own Clive Sinclair the first to produce a mass at your own system of selling computer for under paperwork and see if that can £70, has also just come out be improved before even with an unusual software-thinking about a small computer. One man who is very outspoken on the subject is offers a package deal of five Mr Bob Robinson, of Byte standard programmes including accounting and word-processing and mailing, along with a new mini-micro computer.

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his yed urly notil acd ons frick, A lac-

It was the Osborne I which I finally settled on. No larger than an electric sewing machine it is entirely portable, complete with twin-disc self. Have I got a system that drive (enough memory to store a small novel) and tiny monitor screen (it can also plug into a larger video screen). The complete package with programmes costs about £1,250 plus VAT and is just the thing for the wandering journalist. He can plug it into his car or boat battery system, and it will even fit under an airline seat. In time, and unions permitting, I could write this article, which started life on the Osborne, anywhere in the world, hook it up to a telephone and send it direct for editing and typesetting to the office.

Michael Frenchman

1982 is the year of Information Technology.

It is the ideal opportunity for an exciting business to communicate to everyone its ambitions and achievements on a scale that has never been possible before. In particular, it will stimulate the interest of existing computer users and first-time purchasers alike.

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computer systems

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Jnions: still in benefit

job losses from the introduction of new machinery and the economic recession are having to re-think their approach to pay bargaining and in some cases fight for

their survival.

The various predictions of job losses caused by technological advance, with unemployment figures perhaps as high as five million by the middle of the decade, have wrought from the unions a wrought from the unions a new negotiating approach which is based on no compul-sory redundancies and a rapid move toward shorter working time.

In addition to the jobs

threat, unions are also conthreat, unions are also con-cerned about the quality of work that will be left for those still in employment, model union bargaining pro-cedures insist that nego-tiators pay attention to the technological implications on job satisfaction, health and safety and other related issues. Unions strenuously deny that their basic attitude toward new technology is one of hostility and resist-

ance but they are adamant that the new technologies should be harnessed so that the benefits are shared equally with the workforce. The central union philosophy is perhaps best summed up by Len Murray "It is not just a question of accepting the new technology or fighting it. The issue is how we can maximize its benefits and can maximize its benefits and minimize its costs, and en-sure that its benefits are equitably shared," the gen-eral secretary of the TUC

The TUC has played an increasing role in organizing education forums on new technology for negotiators, but a great deal of research has also been done by individual unions. Union officials believe that

the advent of robotics in industry on a wide scale is some years away, in spite of their appearance on the assembly lines at Ford and British Leyland. Tim Webb, a national officer of the Association of

Scientific, Technical and Managerial Staffs (ASTMS), and the TUC's representa-tives on the Year of Infor-mation Technology committee, thinks that the unions are about to face the "second wave" of new technology. That would mainly come in

the areas of banking, insurance and finance, while the first wave in the elec-tronics industry and clerical areas is already here. Mr Webb said that the effect on electronics industry which was in the first place responsible for designing the

new systems, has been like 'the sword that turns on its self' and he gave instances of big job losses in the television manufacturing industrial industrialization industrial industrial industrial industrial industrial in industry.

He hopes that the Year of Information Technology will focus attention on the problems as seen by the unions and open up a debate on the changes that are necessary if society is to be able to cope with the new working sys-

Mr Webb wants to see the Government's commitment to the Year of Information the Year of Information Technology translated into providing extra funds to cope with the structural changes needed in work and leisure, brought about by the lower demand for traditional forms of labour.

or labour.

That theme is central to The Leisure Shock, a book published in the summer by Clive Jenkins and Barrie Clive Jenkins and Barter
Sherman, respectively general sectetary and director of
research of ASTMS. They
suggest that the words
"work" and "leisure" should
be removed from the vocabulary and replaced by "activity" and "usefulness"

They paint a gloomy pic-ture of the consequences if new technologies are introduced without changes in attitudes, particularly to the work ethic.

A "slave society" should be introduced with new machines being the servants of workpeople who should then have much greater leisure opportunities. Jen-kins and Sherman say that unemployment pay should be raised to more realistic levels, financed by the increased profits flowing from slimmed down and more efficient industries, and they believe that the edu-cation system needs to be more "life oreintated."

In the book they argue that it may even be too late now to start bringing about the to start bringing about the changes that are needed because it will take many years to bring about the necessary change in attitude to the old fashioned work

The authors express conthe authors express con-cern about the growth of fringe political parties of the right and left and the feeling of alienation among young people, caused, they believe, by the recession and high levels of unemployment. The emergence of a 'Clockwork Orange' society is a nightmare but one coming closer to reality each day that passes without positive

action," they say. unions' Trade demands for smoothing the introduction of new tech-nology include consultation and agreement before its

Employers, too, recognize the value of consultation with their workforces. A recent survey by the Confederation of British Industry pointed out that those companies engaged genuine employee co genuine employee consul-tation were enthusiastic about the results, which included a more ready acceptance of new tech-

nology by their workforces. Retraining and relocation of workers on the scale imagined by the unions would require large government funds and the changes in industry and society in the scale in the scal should be brought about in the framework of a planned economy with large measures of state intervention, the

unions argue.
The TUC laid great store The TUC laid great store on a joint statement on new technology agreed in long negotiations with the CBI. The statement, which laid down basic principles to be adopted in the introduction of new machinery was approved by Congress last year, but when it was sent out for ratification by the CBI, its members objected and vetoed it being signed.

and vetoed it being signed.
There was apparently concern among the companies that the statement went too

that the statement went too far toward accepting union philosophy on shorter hours and redundancies.

The TUC's education department has produced a series of guides for affiliated unions and shop stewards on negotiating practices to be adopted with employers. One "There are real choices to be made about the pace, type and social effects of technological change. It does not have to occur at the expense of union members' jobs and working con-ditions."

It goes on: "Our key aim should be to work for change by agreement. Trade unionists need to bargain for vital safeguards to jobs, skills and pay and also influence decisions about investment, products, job design work organization and so on. The ability to do this will depend on a willingness to review union organization and change it to meet the challenges that new technology presents."

Those changes involve more inter-union cooperation at plant level and the sweep-ing away of traditional rival-ries. Some of the changes are beginning to take place but progress is slow as unions defend jealously their terri-

David Felton

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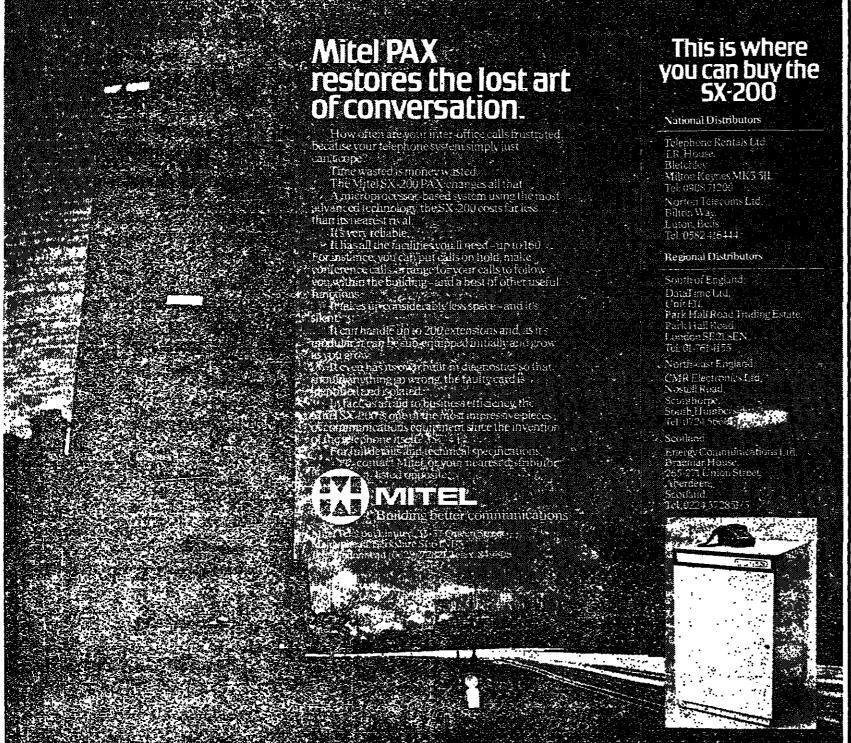
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Educating the managers

Mr Kenneth Baker, Minister for Information Technology, (IT) recognizes that fewer than 50 per cent of British companies are presently using IT to improve their efficiency and production, yet, according to a organization of the office. It duction, yet, according to a organization of the office. It

Britain's future prosperity".
While factory automation per cent betweeen 1960 and 1970, today's office looks very much like yesterday's office in terms of investment in electronic equipment. numbers and types, and the organization and methods of

working.
At a recent conference on the new technology at work, Mr Tom Stewart, a senior consultant with Butler Cox and Partners, highlighted some of the areas which caused managers' apparent unwillingness to adopt IT, and why gains in the office are likely to be less dramatic than in the factory.

Mr Stewart believes that

the mental skills involved in office work have proved more difficult to assist or replace than the more physical skills in manual work. Second, the social cost of productivity improvements is now being questioned to a far greater extent than in the 1960s. "Higher safety stan-dards, more concern about the quality of working life and a greater awareness of the implications of dancy for the individual worker now make some of the apparent benefits of automation less attractive,"

Management attitudes awareness campaign is, he towards IT are often hostile as a result of previous experiences.

According to Mr Stewart, past predictions have often failed because of under, and the managers making business the sale.

A major deterrent to this awareness campaign is, he says, the incomplete dialogue between the potential IT user and the data processing expert, the relationship between technocrats and those managers making business designed. over-estimating the rate of development. He says the most common reason why predictions fail is that "they

overlook or ignore human behaviour . . technical progress creates oppor-tunities, human behaviour turns the opportunities into reality (or not)".

Most managers see the introduction of IT as a major distruption to established organizational structures and patterns of work. That can mean lengthy arguments with the trades unions and employee representatives, especially over such sensitive issues as job evaluations, loss of jobs and changes in working practices.

organization.

Mr Hamer says that the whole field of IT is bewildertowards IT in the office should be "to look very carefully at your office, what goes on in it, how much effort each task involves, and which functions can be most

'cleanly' defined as a single entity and start with those, looking at solutions for a specific problem, rather than products which are solutions looking for problems to solve. Mr Tom Elliott, managing director of UIMC, a manage-ment consultancy with a

prime role to service the Unilever companies, is acutely aware of the resistance to change that can occur as a result of entrenched management attitrenched management attitudes.

"Managing change, which
IT dictates, is always seen as
a threat", he says. He sees
the biggest problem as one of
education. "It is essential to
make managers appreciate

the opportunities of nology and to stimulate them to think of ways that IT can help them in their jobs." A major deterrent to this

ness decisions. There is an urgent need, he says, for "translation" to overcome this dialogue problem. I have interviewed many managers about technology and its role within an organization who are totally bewildered when faced with the language of the technological world. They resent the suggestion that they might be technically illiterate

Mr Elliott acknowledges that this happens within some of the Unilever companies. He believes a way to improve the situation is for all managers to be encouraged to use a keyboard and to

Mr Elliott feels that hos duction, yet, according to a organization of the office. It was been discussed in the office of the overnight in an authoritarian and opportunities of IT, and for them to understand its implications. This must hap-

> agement reinforcement of its benefits, is Commercial Union (CU). Its general manager for Information Systems, Mr Peter Smith, emphasises the importance of marrying technological plans to business needs. This is done under the umbrelia of a corporate policy, understood by all managers, intended to give the customer a better service, with a minimal delay

in insurance handling.

By linking IT to everyday business life, the new methods gain acceptance and credence by all managers in an organization, not just the data processing and technical support staffs. Mr Smith believes strongly

in employee consultation. Part of the problem, he says, is keeping the expectation level lower than the publicity level. "There is always the fine judgment of the time factor, involving interested parties, publicizing the event, and then waiting for it to happen".

Mr Smith sees no alternative to a policy of technology being managed from the top. The mistakes can be very costly, even catastrophic, if there is no leadership. Without the right management attitudes and understanding towards people and nology it seems unlikely that Britain will radically increase its use of IT.

Companies like Unilever and CU provide a clear message: Decide a positive corporate philosophy towards T. Educate managers in a thorough understanding and appreciation of IT. Adopt a participative management style for everyone involved.

Lynda King Taylor

MORI survey: Conducted by Market & Opinion Research International among a representative quote sample of working practices.

At the same conference, Mr Malcolm Hamer, the telecommunications manager at Citibank, confessed that do simple programming, in 1,901 adults aged 15 and over in 153 constituency sampling points throughout Britain.

Simultaneously, it is Survey conducted for Informatic Citibank, confessed that

الأصل الأصل

INFORMATION TECHNOLOGY

They have you taped—and there aren't enough safeguards

since the first stempt was made — in a Houe of Lords Bill — to introduce a data protection law for the United Kingdom. We till do not have one. Sinc 1961, the tion has been the subjects of several more hivate Members' Bills an debates in Parliament, numerous reports, official and unofficial, and a Government

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White Paper: Almost nothing has happened. Rarely can govern-ment inaction of a subject of national imposance have reached sur) proportions. Now, its hand forced by the implementation of a European Convention on data protection, ne Government has promise another White Paper, with legislation to follow when time permits. The consequence of these years of dely is that Britain is now firmy established at the bottom if the league of Western Funnan Countries. Western Euopean countries in the area of data protec-tion. This was implications not only for civil liberties, but also forbusiness. Where Britain once led the field in data protection systems, it will once gain find itself having to the catch up with competitor, that have outstripped t. The missed opportunities are incalculable.

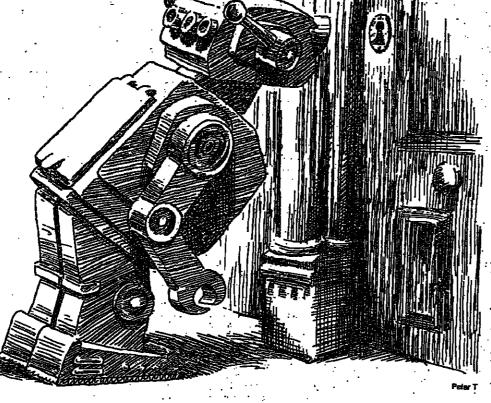
The danger of increasing computerizatin of personal, official and rusiness information have lng been recognized, and as scarcely any longer contoversial. First, data can be tored which is inaccurate, ncomplete or is being put into computers. irrelevant, ad yet can be used as the asis for important - decisins affecting people's lives

Second, pople may have no idea of he information kept on them have no way of finding out, and no oppor-tunity to cerect mistakes. Third, there's the possibility that the infernation can fall into unauthoized hands, who could use itfor all sorts of mation coul be used for a purpose othe than that for which it wasgathered. Fifth, that because computer systems can nov communicate with each ther easily and speedily, the possibility is increased the comprehensive Big Brother files will be compiled on rivate citizens.

From birtl to death, every

individual wi regularly find something abut him appearing in some file or other.
Estimates (how many different file are kept on the average ault individual may be thoght trivial in-themselves - though even library compters can now reveal that a eader took out a book on gerrilla warfare and another on Marxist ideology. Crdit card files might disclos an inappropriate spendig pattern. The Swansea Velcle Licensing Department eeps tabs on every driver; change of address, and heir computer is available to he police. The list of information kept on the individual — his health, income, socal security posi-tion, details of his property, his car, his ob, and so on —

Of cours, for those who have been 1 trouble with the



police, or been members of an "undesirable" political group, even though they have particular sexual proclivities, the information kept on them all this information has been

The need for safeguards is not limited to personal infor-mation. Business, too, needs protection. If a company's list of customers, or its pricing or production formulae, got into the hands of competitors, the result could be financial ruin. It is also claimed (though firm eviby) that British business has been losing out because clients were reluctant to leave their confidential inforhad no protective laws.

حكدا الاصل

Business was not completely united in seeking tighter protection. The multi-nationals, in particular, were data protection laws would do to trans-frontier transmission of data - an essential activity for companies conducting international business. Guidelines issued in 1980 by the Organization of Economic Cooperation and Development (OECD) have

been largely accepted and followed, and the problem of trans-frontier data transmission is not as acute as it

Data Protection, under Sir Norman Lindop's chairmanship, made a number of widely-welcomed proposals for the safeguarding of information on computer. Its central recommendation was that there should be an independent Data Protection Authority to regulate the way computer data was handled and ensure that the privacy of the individual was pro-There would be different ratify the convention.

codes for different classes of To the dismay of all the

Only when Westminster passes its own Data Protection

Act will Britain be able to

interested groups which have

been campaigning for such

codes for different classes of set out the principles which should govern data protection: (i) The individual should know what personal data is being kept, why it is needed, how long it will be used, who will use it, for what purpose, and for how long. (2) Personal data should be handled only to the extent and for the purposes made known at the outset, or It should be accurate and complete, and relevant and timely for the purpose for which it is used. (4) No more data should be handled than is necessary for the purposes



depart from the Lindop proposals on one crucial issue. Instead of setting up an independent Data Protection Authority, as rec-ommended, the Government announced that the relevant authority would be the Home Office itself.

As appalled critics point

out, the Home Office is also a very substantial computer user. It is the department responsible for some of the most sensitive and controversial computers, such as those kept by the police, where abuses have already been shown to occur. The Home Office, Sir. Norman Lindop has com-

mented, "can hardly be held to be impartial and disinterested in the area of personal information". That is a view shared by the British Medical Association, been the department most inaction, a fact hardly con-ducive to inspiring confirole as the country's data protection authority. Britain is at least likely to have a Data Protection Act on the (1982) or in 1983, but the Committee's call for urgent action, nothing happened until 1981, when the Council debate over its content may prove highly contro-versial. The possibility that the Government will try to Convention was opened for set up a system of ombudssignature. In effect, the convention does little more time, the other countries of Western Europe, and the become parties to it have to implement those principles in United States, are happily carrying on with implementing their own laws, leaving

Marcel Berlins

Britain as in so many other

fields, lagging badly behind where it was once pre-

Don't waste your time in Information Technology Year. Ask the right questions.

Full text editing	1		·	~	
Information processing	1				
Sorting & marging	/				
Paragraph selection	1			2.55	
Search & replace	1				
Automatic page numbering	1	•			
Red/black presting	✓				
Simultaneous scientific & normal text display					
Calculation & integral data processing	1	•			
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Iwo men were watching a mechanical

Excavator on a regard technological developbuilding site.

ment. As a threat. Or as a promise.

Every invention from the wheel to the steam engine created the same dilemma.

If it wasn't for that machine

other, and if it

said one,

But it's only by exploiting the promise of each that man has managed to improve his lot. Information technology has

given man more time to create, and released him from the day-to-day tasks that limit his self-fulfilment.

twelve men wi shovels could be doing that job."

We ourselves are very heavy users of this technology, ranging from golf-ball typewriters to ink-jet printers to small and large computers, so we're more aware than most of that age-old dilemma: threat

or promise. 'Yes, replied t Yet during 30 years in the UK our workforce has increased from six to 15,000. And during those 30 years not a single person has been laid off, wasn't for your not a single day has been lost through strikes. Throughout Britain, information

twelve shovels, technology has shortened queues. Streamlined efficiency. two hundred men Boosted exports. And kept British products competitive in an with teaspoons

international market. could be doing that

> To treat technology as a threat would halt progress. As a promise, it makes tomorrow look a lot brighter

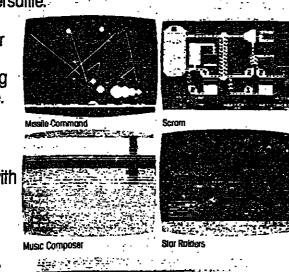
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Mechanical marvels of the double shift

elsewhere in the enterprise.

At the Nissan plant in

Zama, factory manager Mr Nakayama outlined his philo-sophy to automation: "There

sophy to automator. And are three reasons: quality is improved, and becomes more stable; human labour is replaced by robots where the

work is very hard, and safety is improved; and there is a manpower saving."

The company has largely automated its body assembly

line, and is now working on a second generation of robots to take over the paint shop

It is at this point that a

shadow crosses the face of

secretary of Jidosha Roren, the Social-Democrat affili-ated autoworkers' union.

"We think it is very good to have robots where the

difficult working environ-ment. However, there is a problem about unemploy-ment. Up to now, we have

been able to introduce robots

without reducing employ-

ment because domestic and export sales were good.

"But if more robots come,

Kosaka.

official

assistant general

Hiromi

Momoe, Junko, Seiko and argue is connected with the Yuko work a double shift Japanese search for identity. every day at the Nissan car plant at Zama, outside Tokyo, turning out Datsun models for the home market and for export. They are precision welders, and their efforts are highly prized not only by management but by niques are not sent out of the factory gate, as they might be in Britain, but are retrained and given a job only by management but by the Japanese auto-workers Japanese auto-workers

mion.

They are, of course, robots. Painted white and surrounded by a six-foot-high electrically-isolated steel electrically-isolated steel fence, their non-human ceaseless toil inspires a mixture of apprehension and admiration in those who see them for the first time.

The technicians who service these denizens of new technology have given each robot the name of a woman pop star or actress, and a coloured photograph of the lady in question stuck on the side stares out at you as the welding arm performs im-possible gyrations to weld car bodies together.

and the final assembly line. This target should be achieved in four to five Japanese attitudes towards new technology differ mark-edly from those of British workers. They welcome industrial innovation, and their whole cultural background is informed by the assumption that industry must continually adapt to "Our ideas are rather dif-ferent", he insisted.
"We think it is

survive.
This outlook is encouraged by the Japanese concept of himself as a worker. Ask him what he does, and he will commonly reply "I work for company X" — rather than "I am a welder". In Japan's almost-full employment economy, school leavers exercise much less occupational choice than in Britain, joining a company as a hand or a brain and turning their talents to whatever job is assigned them.

there will be a problem. Of course, technical innovation plays a role in the improvement of productions. And according to diplomats with Western experience, ment of productivity, so we Japanese society is in a are not opposed to this. But process of constant change, so that practically anything there is a problem concerning employment and the readily accepted. transfer of workers from one Innovation is a powerful place to another." His answ-driving force, that some er to that: "There should be

management."

There was consultation when the robots were first introduced four years ago. Those few employees who were displaced were found Similar experience

reported from Asahi Shin-bun, the mass-circulation bun, the mass-circulation Tokyo daily paper, where the introduction of computerized printing technology did not lead to lay-offs. Some workers were "loaned" to associated companies, with a wageprotection guarantee. Others were retrained and kept within the paper.

That is employment protec-tion on a scale that British workers can only dream about, and it may not survive indefinitely in Japan. The lifetime employment system that underpins job security in the face of rapidly-changing technology is giving way slowly but surely to a more flexible system.

The huge gap between starting pay and the top wages paid to men in their mid-fifties, nearing retirement is narrowing rapidly.
Older workers tend to adapt
less easily to technical innovation, and companies are
being obliged to reward
adaptability and skill as well
as long earlies. as long service.

But while the Japanese economy continues to expand work is hard, or there is a and national wealth keeps on growing, the unique job-for-life system it supports will permit the smooth introduction of new technology, which in turn contributes to economic growth. It is a magic circle of prosperity that Britain can only envy, but British companies intent upon going in for new technology in a big way are likely to find that union negotiators will insist on retraining and reemployment. Japanese-style, in fac-

Paul Routledge

Below and on the next six pages the impact of this technology on our work and play is examined. Articles cover the effect on health, education, the office, home and finance

Health on the bleep

Clap your hands and a white plastic box about the size of a cigarette packet bleeps back at you. The Homer Locating device, helps blind people to device, neips olima people to orientate themselves in their homes and costs £6.33. It is information Technology at its cheapest. At the other extreme £10m is the absolute minimum that the National Health Service will be spending a mainframe computers. ing on mainframe computers in the current decade.

Information Technology in health care comes in all sizes, shapes and prices. But it is the development of the mini likely to have the biggest impact in health care.

For while it may be hard to believe today, both the British Medical Association and the Royal College of General Practitioners believe that by 1990, 80 per cent of doctors' surgeries could have a micro-computer installed. Dentists are likely to take the same path. In hospitals,

computer systems are being developed that help doctors to diagnose more accurately and to prescribe more effectively and cheaply.

Other systems are being developed for handling the

endless administration hospitals, It is in general practice

that most patients are likely to see the impact first. So far only about 200 to 300 of the country's 27,000 general practioners have actually got a computer. But for an outlay of £3,000 to £11,000 tax deductible, of course - a GP can now equip himself with a system that not only makes his life easier, but actually makes him a better doctor.

The system will, of course, do the accounts, and other mundane chores including ensuring that all the myriad fees a doctor can charge are claimed. The money saved can make the computer an attractive proposition in its own right. More importantly for the patient, the computer can maintain a patient register that can be made to print lists of patients by age, sex, disease, or other classifi-cation. Thus it can print a list of all girls in the practice aged between 10 and 13 who need to be called for German measles vaccination; elderly patients with bronchial trouble who would benefit from influenza vaccination can be printed out at the start of each winter; appointments for regular screening for cervical cancer can be

Fully computerizing orthodox medical records is probably not worthwhile — large amounts of storage, which is expensive, would be required. But key facts can be tagged to each patients computer file, such as allergies to pencillin or other drugs, or the fact that a patient is diabetic, or has high-blood pressure.

Drug prescribing can also be markedly improved with a computer. A selection of possible drugs can be printed up on the screen, together with their costs, and warn-ings of possible side-effects and interactions.

The result can be choice of the cheaper drug when a choice exists, the avoidance of interactions that doctors would not normally carry in their head, and the possibility of printing out a weekly or monthly summary of what has been prescribed.

Doctors who have done this find their prescribing habits change when they start to ask themselves whether dozens of prescriptions for minor tranquilliers are really necessary in every

Compatibility key issue

Repeat prescriptions, too, can be handled by the computer, with the added advantage that after a given number the computer will insist that the patient is seen by the doctor to ensure that the drug is still needed. A key question for the future is whether the various

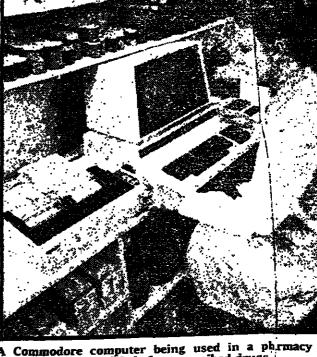
systems on sale and being developed can be made compatible, both with each other and with hospital and regional computers, as they are installed. That would allow files on

drug information, for example, to be updated from a central source, so that the a central source, so that the latest information was automatically available to each GP. The result would be virtually to impose better prescribing on family doctors. Educational programmes to keep GPs up-to-date could be provided.

date could be provided.

Another advantage of such link-ups would be access to the diagnostic aids being developed. Already there are programmes to help diagnose and/or provide the outlook for acute chest pain, abdominal pain, gastric bleeding, jaundice and bead injuries. One of the most advanced, the computer-aided diagnosis

of abdominal pain, has been developed at St James's Hospital, Leeds, by Dr Timothy de Dombal. It has proved so successful in helping relatively junior staff to improve the accuracy of their diagnosis, that it is now being tested on United States nuclear submarines for use by paramedics to decide whether the submarine needs to put back to port with a sick patient, or whether the case can be handled on board the submarines, which do not carry doctors.



A Commodore computer being used in a phrmacy to produce labels for prescribed drugs.

Confidentiality is the key issue when it comes to computerizing medical records — either as complete records or as selec-ted items for an in-patient information system which would be used for health service management and

planning.
An NHS committee has already produced recommendations on a national in-patient information system that can be run manually, or on a computer, and pilot projects are under way.

The British Medical
Association, which has led

the way in insisting that access to computerized medical records is safeguarded, will be watching these developments closely. Its objections to the lack of safeguards in the pre-school child health computing project — which includes among the information recorded items such as whether the mother has had an abortion, or is a single parent
— led to that project being
held up for 2½ years. Only
recently, with extra safeguards built in, has the BMA agreed to the pilot

projects going ahead. Dr John Dawson, under secretary at the BMA, said "We would never agree to the holding of medical records on a single national system which took control out of the hands of the doctor. On the other hand, it is clearly desirable if one hospital can telephone another where a patient has attended and get the past records from a computer down the telephone line. There would have to be a system whereby access to the information was limited to specific individuals and the hospiwould have to be able to check that the request was genuine, but the advantages of such a system are obvious both for the patient and the doctor."

Studies at Leeds over the past eight years have shown that using the programme, the accuracy of hospital doctors' diagnosis of the cause of the pain has risen from 42 per cent to 70 per cent. Similar results have been obtained at Airedale General Hospital in West Yorkshire, and at Bangour General Hospital in West Lothian, and it is hoped to extend the programme shortly to a further eight to 10 hospitals in Britain finally to prove the system.

It works, in part, by forcing the doctor to ask all the relevant questions and make the examinations necessary, which are then checked off on a sheet and fed to a computer.

The computer then compares the case with 6,000 others, collected from around the world - far more than could be within any one doctor's experience—and offers predictions of the diagnosis. This it only delivers after the doctor has offered his verdict.

The result is not only better diagnosis, but a mar-ked decline in unnecessay operations which not only save money, but reduce risks to patients. Dr de Dombal emphasizes

that the computer only provides advice — the doctor makes the final decision.

"What we have effectively done is put the experience of 500 doctors from around the 500 doctors from around the world into a small box", Dr de Dombal says. "If you do that, the small box is going to get pretty good after a while. All that experience is available to the doctor trying to diagnose acute abdominal pain in the middle of the night, and if that doesn't help him, probabby nothing will." With the aid of the computer, junior doctors, once trained on the system, can bring their diagnostic accuracy up close to that of an experienced doctor within a few weeks.

few weeks.

Dr de Dombal says that in the next decade, if all goes

well, such programmes could become fairly commonplace in general hospitls, covering perhaps 10 per cut to 20 per cent of medicine where the problems can be clearly defined. "There are whole defined. areas of medicin however, that are never ping to be covered by the sort of programme. The reas where medicine is still a much an art as a science and you are relying on the idgment of

shrewd consultan The equipmen necessary to run a programme such as that for acute abominal pain costs about £ 000 now, against £250,000 1 years ago. If hospitals adopt computerization on a lige scale, however, the software could be easily tailored a fit into a system that woul also run patients administation, re-cords and the other services a hospital needs.

£30m spent ad little result

Although item such as payroll have beer computerized in the NHS or as long as they have any here else, the more medical nd experimental side of NIS computerior ing has a rater sorry. history.

Many of the first 15-projects for patiet administration set up by he Depart-ment of Health n the late 1960s ran into selous troub-le. Some £30m was pent in a decade with live tangible result other criticism.

The DHSS, apparently once bitten, becate cautious and in 1980 the dairman and three leading methers of the department's conputer reand committee resided. They warned that atain was falling behind id the use of computers in hositals and primary care, an baulked particularly at the efusal of the department to back two particular projects.

One, that is still issue, was to complerize the work of family pictitioner committees, who maintain registers of doctors patients and pay the family loctors. The other was to sped £2.5m over eight years, in alling a comprehensive herican computer system called Promis at the Roy Free Hospital, in London.

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s regulate

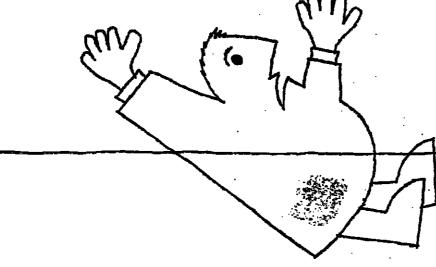
That system would irtualhave run the Patients' records world have been computerised admissions and disparges handled, and labator stored, while the tocks, costs, uses and interacous of stored, while the the drugs in the hobital's pharmacy would all have gone on the computer complete with a virtual tetbook of medicine which in would have provide lent teaching and diagnosis. The system cates maintain that ning costs as an experiment would have been righly matched by its savings-per-haps £29,000 a year insaved paperwork, and 15 pe or £189,000 a year of drug bill, plus all the b of improved efficience fewer lost notes, test and the like. It was, however,

The dust from the nations is only now se and while the advoca Promis fight on, a new Computer Policy Comis getting underway to the expansion of compling in the health service.

Some of the early excimental projects that surved are now producing food results, and Mr Galon Roberts, chairman of Orord Area health Authority and chairman of the new committee, says he is implied by the amount of workthat has been done in MS computing. the expansion of come has been done in computing.

The problem is standardization. As yet the complete has no budget. When figets one it seems unlike to support "turnkey" priests for complete comple for complete computerizion of hospitals. Rather it we be looking for the development of compatible packages.

Nicholas Timnins



Have you recently found yourself becoming an involuntary non-profit organization?

The earnings reports of many companies are experiencing a widespread outbreak of parentheses. (We mean those depressing bow-legged punctuations that signify operating losses in balance sheets.)

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Express Dairy Foods, North Thames Gas and Guinness

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ning coincidence or a considerable profit opportunity? Those who still believe in opportunities are invited to write for particulars to: Marketing Communications, Data General Limited, 3rd and 4th Floors, Hounslow House, 724-734 London Road, Hounslow, Middlesex TW3 1PD. Tel: 01-572 7455.

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A child shall lead them and late starters follow

Children respond extraordinarily well to information technology. As IT Minister, Kenneth Baker said: "they are my best fellow missionaries" in spreading the IT

Anyone who has seen a 12-year-old computer wizard programme a ZX81, or even a three-year-old playing with an electronac toy, will know just what be means. So will teachers who bave been taught computing by their pupils at sixthform seminars — an increasingly frequent occurrence, according to Mr Baker.

No, the problem of introducing IT into education is not acceptance by pupils or students. They love to get their hands on a computer keyboard and learn remarkably quickly how to use it. The barrier is mainly financial — the sbortage of money to buy hardware and software.

But there is also a human obstacle in the shape of certain school administrators and teachers who quietly oppose computerized teaching aids, partly out of a sincere belief that education will suffer if the human element is reduced, and partly because of

the general Luddite reaction to new technolgy which you do not understand and which may threaten your job.

The Government is trying to reduce the financial barrier to the educational appli-cation of IT, through schemes such as the recently introduced Micros in Schools programme. Many private individuals and industrial companies are also giving schools and colleges financial aid to introduce new educational technology, or lending or donating the equipment itself.

The human problem is not so simple to solve. The Government is doing its best, by supporting microcomputer courses for teachers through the £9.5m Microelectronics Education Project.

But what is really needed is a revolution in basic teacher training. Mr Baker would like to move to a stage where every teacher going through a teaching college has a period of two or three months learning where the micro fits into the educational process". Unfortunately there is no sign of that happening yet.

Micros including several Indians with no formal qualifications, and — most

Britain has two schemes to put a microcomputer into every secondary school.
Under the official Micros in
Schools programme, the
Department of Industry has Department of Industry has Computing Centre had approved 1,900 applications for 50 per cent funding ployed school-leavers can be towards the core of a mining ployed school-leavers can be towards the cost of a micro-computer. And micro entre-preneur Clive Sinclair claims called Threshold Scheme. In to have signed up 2,300 schools for his alternative scheme which expired in

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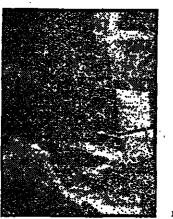
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Timers

Mr Sinclair sold any secondary school his ZX81 micro with a 16K (16,000 character) add-on memory for E65 — half the normal price. He launched his own scheme after the Department of Industry excluded the Sinclair micro from its official programme. The Government offers grants towards the purchase of just two models, the RML 380Z sold by Research Machines of Oxford for £1,680, and the BBC Microcomputer made by



First steps in computer technology. Schoolchildren often adapt better than their

Government luge, it was restricted to the to 3,000 secondary schools thought to have no computer equipment at all. But from this month the grant has been extended to schools that do already own

Although Kenneth Baker is confident of reaching his goal of putting a micro into every secondary school by the end of this year, that achievement will not be much more then a symbol of the need to bring education into the IT age. For a single computer in an average high school will allow only one hour's use per pupil per year.

Progressive local authorities are therefore investing more of their scarce funds in additional computers, to give all pupils significant "hands-on" experience. And particularly imaginative authorities are linking together the micros in several schools, allowing them to share their databases

One example is North Tyneside Borough Council. It feels that a network is the only way to provide the large amount of data storage that is required if the computers are to be used across the whole curriculum. Otherwise, the council feels, "there is a tendency for mathematics and science departments to retain the teachers in other subjects can be unhappy about using a system that is felt to require knowledge of advanced mathematics."

North Tyneside is considering the possibility of using the local authority mainframe computer to pro-vide mass data storage for all its schools. The problem is that the data would have to be transferred fast when a school needed it. Ordinary telephone lines are too slow and special data lines too expensive, so radio transmission is being investigated. The council says the main difficulty is obtaining Home

Job training

The Government has received much publicity recently for its decision to set up a national chain of about 20 Technology Information Technology Centres, to give unemployed school-leavers training and work experience in microelectronics and computer skills. They are based on the Notting Dale Technology Centre in London, which has trained about 60 teenagers

graphically fertile territory for distance learning, be-cause it has many very isolated communities. But over the past three years,

importantly — placed them in IT jobs. can open university has been inhibited by the fact that for many years its traditional colleges and universities have National However enrolled a far higher pro-portion of the student-age population than on this side of the Atlantic; the United States does not have the 1981/82, the sixth year of the NCC scheme, it will provide opportunities to 1,470 16 to 19-year-olds, at a net cost to large pool of intelligent men and (particularly) women who had missed the chance the Manpower Services Commission (the sponsoring agency) of E3.1m.

Although all Threshold Scheme applicants are unemployed school-leavers and there is no minimum qualification, candidates are interviewed and tested for a whole day before they are accepted. (The four written tests exam-

NCC's careers projects man-ager. "There had never before been anything like an apprenticeship in data pro-

Gradually employers war-med to the course and began offering jobs to the trainees placed with them - young-sters they would previously often adapt better than their not have dreamed of employeders to complex innovations.

not have dreamed of employing because they had no academic qualifications.

On average, over the first five years of the Threshold Scheme, only 10 per cent of starters dropped out before the end of the year. And 90 per cent of those who finished the course had found a full-time job within

Distance learning

In educational circles abroad Britain has three world-famous institutions: Oxford, Cambridge . . . and the Open University. Few people in this country realize how much educators elsewhere, and particularly in North America, envy and admire the OU. They see it as one of a handful of bright sparks within Britain's overall reputation as an international

The Open University's importance within the general story of IT lies not in the technology it uses — there is nothing especially novel about that — but in its pioneering role in the development of "distance learning". It was the world's first university founded to deliver higher education to the homes of people who did not have the time, the money or the inclination to go to a traditional institution.

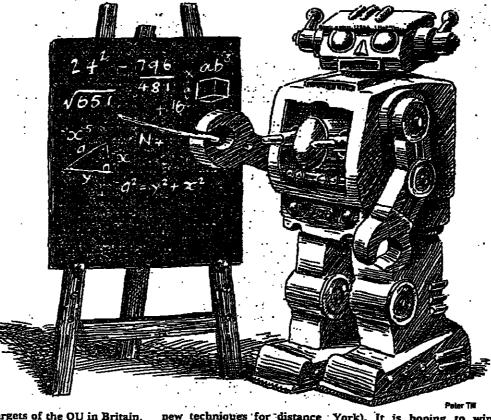
Distance learning is going to be education's great growth area in the years ahead, and the intelligent home computer/information terminal will obviously be an ideal medium for it.

But in these primitive days the Open University relies. mainly on written course materials sent to degree students through the mail. The BBC television pro-grammes, the glamorous side of the OU, are only a supplement, albeit an important one, to the basic texts. They are also supplemented by tutorials, sometimes over the phone, and by an annual

Recently the OU has been expanding its continuing education activities. Several non-degree courses in the field of IT are now available for professionals who want to update their skills.

One example is "Micro-processors and Product Design: Course for Engineers". It is a 150-hour self-paced course for engineers and designers who are considering the introducton of microprocessors in their products. It includes exten-sive practical work on a microcomputer system sup-plied by the OU. The full

course package costs £395. North American is geo-



targets of the OU in Britain. Nevertheless several events in the past year have encouraged the many American OU supporters. Most important was a \$150m gift to the Corporation for Public Corporation for Public Broadcasting from publishing tycoon Walter Annenberg; The money is to be used to produce higher education courses which will at first be broadcast by conventional radio and television but may later he disseminated by new comtechnology. munications to obtain a conventional Some of the Annenberg degree and who are the prime funds will be used to develop bought from the British OU (which has an office in New

new techniques for distance learning, including video-discs and interactive cable television (which would allow the student viewer to respond to the teacher on the screen). Another encouraging event in the United States was the recent inauguration of the country's first nationwide distance learning project.
The National University
Consortium as it is called, started on a small scale with a network of seven univer-sities and seven local tele-

York). It is hoping to win more funds for expansion from Mr Annenberg's gift. Distance learning is fur-ther advanced in Canada, whose Anik satellites are beaming educational pro-grammes to remote Eskimo villages in the vast Arctic wilderness. Several Canadian

provinces are starting their own open universities; the latest is British Columbia's Learning Institute, which is being set up with assistance from Britain's OU.

Robots to the rescue . . . ?

The industrial revolution now taking place in Japan, the United States, some European and other countries was made inevitable, it can now he seen by the rapid devalue. be seen, by the rapid developments in microelectronics during the past decade. To an important degree the appli-cation of these developments to industry has been characterized by the manufacture of microprocessors which has opened up an almost unlimited prospect for the automatic transfer of engineering data to management control. But although the fundamental technology has been available for some time it is only now becoming a feasible industrial application as the cost of electronic control devices begins to fall and their reliability and power increases.

The stages of progress in industrial automation can be seen clearly in the development of machine tools. In the past 20 years there has been large-scale adoption of numerical control (NC) machines and more_ 40,000 have been installed in Britain. The next stage was to link together a number of NC machines through a data transmission network to produce direct numerical control (DNC). A further stage was to bring together a number of machines under a single computer numerical control (CNC) system.

The addition of robot-Clive Cookson | controlled transport of work

in which the replacement of operators by a central computer control can lead to an unmanned workshop of the kind now operated by Fujitsu Fanac in Japan. In November 1980, Fannc, the world's leading manufacturer of NC equipment, opened a factory near Mount Fuji in which industrial robots, controlled by minicomputers, produce other industrial robots with-out human intervention.

out human intervention.

The Fulitsu Fanuc plant is the world's first factory to be unmanued except for minor machine operations and administration and it has naturally astonished visitors, but similar advances are now being made by the United States, France and West Germany. Britain, too, is to develop an FMS through the recently announced partnership of the machine tools division of Tube Investments and Taylor Hitec, a specialist robotics company. robotics company.

Commenting on what will be Britain's first venture into FMS, Professor Robert Bell of Loughborough University said: "There is just time to put this right in Britain. We have five years to put it all together or our manufactur-ing industry will go into accelerated decline."

There can be no doubt that

the development of an Ameri-

Simply years ahead





being aired on the subject of office automation, we

we've commissioned 'The Electronic Office,'a manage-

'The Electronic Office' is by Dennis Jarrett, an independent consultant in office automation and computing, and has a foreword by the Minister of State for Industry and Information Technology, Mr Kenneth Baker M.P.

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A computer keeping an eye on stock control.

far as Britain's introduction of FMS is concerned. But there has, in fact, been a readiness to employ indus-trial robots in Britain that seems both surprising and encouraging. It is officially estimated that there were 500 robots in British industry at this month by Inducon, the the end of 1981. This cominternational management pares with 1980 estimates of 14,000 in Japan, 3,255 in the United States and 850 in West Germany but it is important to bear in mind that the definition of a robot varies

However, a recent survey by the British Robot Association of 370 industrial robots in Britain showed that they were installed by 140 to 180 users. In Europe only West Germany and Sweden report more users.

Robots are now capable of routine industrial tasks Ransomes, Sims and normally performed by Jefferies (agricultural human operators. At present machinery and grass cutting which seems to

they are used most fre-quently in such operations as: paint spraying and other surface coating; spot and arc welding; machine tool chang-ing; die casting removal;... injection moulding; process machining and general hand-

In a report to be published international mangement consultants, detailed case studies of nine British com-panies show why they in-stalled robots and how they have benefited.

The companies studied were: Ti Creda (manufacturers of electrical appliances — cookers, washing machines and kettles). Two washing RAMP robots, together costing £40,000, operating at the Blythe Bridge factory near Stoke-on-Trent. Employed on spraying heavy electric spraying heavy electric cooker ovens and panels with

equipment). Employs about 1,600 mainly on a single site in Ipswich. Operates one Trallfa robot for arc welding parts of ploughs. Cost of robot and welding equipment £35,000 plus £6,000 for rotary mounting table mounting table.

BL. Thirty seven robots operating mainly at Longbridge on spot welding of the Metro body frame. Laurence, Scott & Electromotors (electric motors and significant improvements in switchgear). One of three Norwich plants is using two injection moulding machin-electrolux MHU Senior ery.

robots to load and unload a notching press. Cost was £26,000 and the benefits have included improved machine utilization. JC Bamford Excavators. Employs about 1,500 people on a single site at Rocester, Staffs. An AWP Hal pro-grammable welder was in-

stalled in 1979 at a cost of £54,000 and has been em-

and mouldings for the gas, water, farming and building industries): Employs 1,000 people at sites in Brandon, co Durham and Ashford, Kent. Two Unimate 2000 robots are operating at Brandon, un-loading large plastic injection moulding machines. They cost between £40,000 and £50,000 each and, operating for 24 hours a day, seven days a week, they have led to

significant improvements in Metal Castings (Worcester) (diecastings for the auto-mobile and other markets). Employs some 600 people. The company has pioneered the use of robots for diecasting in Britain. Six Unimate

micro automation controls, £750,000.

the robot will be employed to arrange electrical wire into a loom configuration for use in the control circuits of fork-

Aling 4%

WCB Clares (trolleys, baskets and shelving systems for shops and supermarkes). Employs 245 people at Wells in Somerset. In 1977 an ASEA IRb6 was installed for arc welding side frames for stacking trolleys. Two more were bought later and a fourth robot is at present on commissioning trials. Cost of the first was £57,000 and the next two cost £45,000 each. The fourth will cost £37.000.

Quite apart from the speci-fic benefits obtained these 2000B machines in operation case studies demonstrate that installed at a cost, including robots can be employed automation and microsmall companies.

Another important group

the point of starting production at the Basingstoke plant. The cost is \$30,000 and over the next five years is Britain and abroad. They incorporated in the concepts of Computer Aided Design (CAD) and Computer Aided

Manufacture (CAM).

CAD is much more than applied computer graphics or the automation of the draw-ing office. It incorporates modelling, analysis, simulation, optimization and visualization in designing for production. CAM incorporates the NC, CNC and DNC technologies as well as robotics and automated testing with all aspects of computer-based manufacturing control and procurement.

It is claimed that CAD and CAM, when linked together, not only improve design and manufacturing technology but also the efficient management control of the business, especially when they are so tightly organized that integrated through a data- Western observers have been base system. CAD/CAM tech- amazed to see the minute

Britain and abroad. They include electronic, mechanical and electrical engineering, ship design, building and the offshore industry, cer-amics, glass, furniture, fabrics, cartography, mapping, land management, civil engi-

office layouts. ln stock control, too, computers are already playing a major part. Hepworth, the British retail clothing chain, have installed a system to replenish their shops daily after sales details are trans-mitted to the head office computer in Leeds. But the technique in Japan is even more advanced. There, the computerized stock-control system is called Kanban which, roughly translated from the Japanese, means "just in time". The system is

companies as Toyota. has so far been concentrated in manufacturing, other important growth areas are These include appearing. These include marine development, nuclear industries, medical and hosneering and the design of

> painting of bridges and buildings are all likely to be assigned to robots. **Industrial Robots will be available at £90 from Inbucon Consultants. Management Knightsbridge House, Knightsbridge, London SW7

erection of steel structural frames and the cleaning and

Alan Grainge

Taking the slog out of office routine

This article has been written on a piece of electronic equip-ment, a word processor, that makes my electric typewriter as out of date as a quill pen.

When I make mistakes, my ET 121 corrects them... well I press a button to correct them instead of using a

Talk with any secretary and she will usually say that Information Technology has taken the routine, monotonous chore out of her job, and just as the golf ball typewriter was the perquisite to entice secretarial talent, now it is electronic text editors or word processors.

editors or word processors.

The cost effectiveness of word processors may be questioned, but for the user there is no doubt that office technology can make for more job satisfaction.

A couple of years ago Aline was one of a number of copy typists in the head office of one of France's large regional banks. Her work, she said, was boring, repetitive and her morale was low. "I did not have to think or even look for anything... I just typed exactly what was written out for me, and spent most of the day thinking about other things".

Audrey constantly had to do reports. She works in one of the larger chartered accountants' offices in the City Her boss constantly changed paragraphs and phrases and sometimes the report was retyped as many as 10 times. The constant repetition and irritation it caused made the morale around the office For both of them their

not need word processors for all their work, but certainly for duplicate letters, stan-dard text work and long reports, it has made their working lives more rewdard ing, less tiring and physically

demanding. The Civil Service conclud-

The Civil Service concluded an investigation last year into the economies of using word processors for 30,000 typing secretarial staff. The report said that to justify replacing an electric type-writer with a word processor, productivity increases of between 43 per cent and 72 per cent were required, per cent were required, depending on the labour accommodation and equip-

Typists do more

than typing ...

ment costs. The report says "mean tain productivity improvements of ies

working life has been chan-ged because of IT. They both agree, however, that they do not need word processors for operations". However, the report goes on to comment that worthwhile improvements in productivity are

As a basis for cost com-parisons, word processors were priced between £6,000 and £9,000 against an electric typewriter costing about £400.

The report did suggest that with the "trend towards very stable or even reducing equipment costs and increasequipment costs and increas-ing staff costs the cost equation may well change significantly in the future in favour of word processors". Many managers I have

interviewed still complain about the reliability of certain models and the difficulties in getting after-sales

trated when they could not efficiency, and finish a report because of access to information technology and the harnessing of text editing improves their cessors.

The International Information and that the access to information technology and the harnessing of text editing improves their coverall performance.

ation has complained bitterly about manufacturers concentrating their efforts into selling but little time being devoted to operator training and after-sales service and and after-sales service and support. When the machine goes wrong equipment costing on average £7,000 is laying idle. In addition there is the cost of the operators' time, which in London is

time, which in London is averaging £6,500 a year, according to one of the major recruitment agencies.

Some managers feel that the real reason for installing word processors in their companies has been to im-

... but bosses

think less

than they imagine

THOUGHT-WORK

service and maintenance, prove managerial effective.
Two secretaries were frusness rather than secretarial:

tion/Word Processing Association has complained bitterly about manufacturers concentrating their afforms in the control of the control of their afforms in the control of t

However, many secretaries. are not certain just how IT. can help them do their jobs better, and they rely on their managers — or the media — to make them more aware. One of the grievances here

is just where to go for positive information and non-biased advice. A secretary who has an IBM golfball typewriter is likely to turn to her IBM salesman for advice; but if she has no machine loyalty then she may find the loyalty then she may find the IT world baffling, with its proliferation of products, prices and permutations.

Conferences and exhibitions like Info 82, the first prices in the conference in t major IT conference in February at the Barbican

February at the Barbican Centre, provide an insight into product variety. So do walk-in retailers like the Xerox shops. But many secretaries still complain bitterly of the technical jargon of the manufacturers. One secretary said to me "I wish they would explain their explanation!'

A report to be published soon by Butler Cox and Partners, The Market for Office Technology, examines continued on next page

stock levels carried by such Although the use of robots

pital work, transportation, agriculture, forestry and construction. A public service which is likely to be robotized in the future is firefighting and it is expected that domestic cleaning will be eventually carried out by robots. In construction, the

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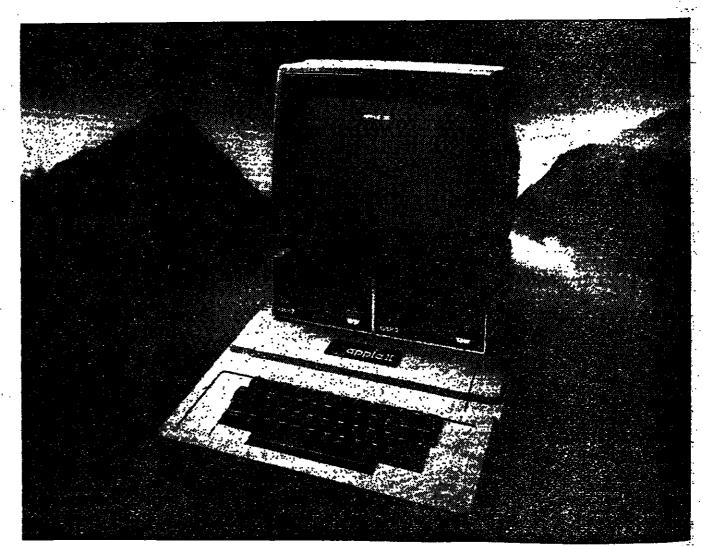
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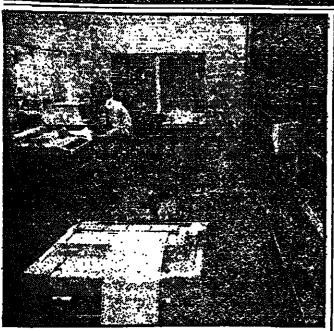
Name: Establishment:

Position: Address:

Tel No:

equipmen

which allonetwork freedom o selection oranges from tel, Herald tems, to maintrame. computers.



routine inquiries about prices,

delivery and stock control can be accurately handled by the technology, allowing the manager to concentrate on areas "that require judg-ment, like future business strategy, market place com-

petitiveness, new products"

He feels that just as it is wrong for a housewife to slave over a washboard now we have the washing machine, it is also wrong for a manager to slave over routines when IT can take the washing washes the washing washes to be the washing with the slave over the washing wa

executive's life.

He agrees that once "compatibility" and "resilience" problems are eased, and standards are established along the lines being sought

along the meson formed by the recently formed Industry

Focus Committee** then managers will find less

irritation when working with

IT products.

In a straw poll of managers, all say that the major change in their job as a

result of IT and desk top power, is the instant avail-ability of information which

allows them to speed up their

decision making — that is if they have properly thought through the question "what information do I really need, and in what form?"

information.
In principle this means

that an executive could work from home. But there is a

reluctance to relinquish the

office desk in favour of computing. One businessman

said that working at home was too unsocial compared

According to a recent survey there are 1,700,000 separate "offices" in Britain, com-

pared to the previously published figure from the

Census of Employment 1976

which made it only one

Ltd (IMR), a uniquely de-

tailed picture of British office equipment market,

covering products, service areas and Information Tech-

nology. The 1976 Census was

known to have achieved poor coverage of smaller office establishments — a compari-son of the IMR results with

those from the Census esti-

Lynda King Taylor

The survey undertaken by Industrial Market Research

with the office.

In December, I. P. Sharp

red from previous page ndividual equipment, its osts and its characteristics. individual This report, funded partly by the Department of Industry and partly by subscribing companies — which includes British Telecom, ICL and organizations from an analy-is of their business problems, the opportunities for word processing and the managements' objectives for office technology.

The report indicates that the "humdrum" out of the there is tremendous scope for IT as a means of improving efficiency in all areas of secretarial and support functions, such as accounts and finance, personnei, payroil, sales, mar-keting and distribution, production stores and procure-ment. But the major problem for many companies is still "where do we begin and

This year Xionics, a small British computer company, installs an information system in the Cabinet office, Whitehall. It forms one of the "office of the future" pro-jects, demonstrating advanced office systems, planned by the Department

According to Mr Kenneth Baker, the Minister, these projects are "particularly good examples of intelligent public purchasing allegates."

In December, I. P. Sharp Associates, an international computer-communications service, offered an entire international business data base for large computers. good examples of intelligent base for large companies, public purchasing, allowing which covers economic and the public sector to show that demographic data on 130 information technology can countries since 1960. This means that users — at create greater efficiency and improved service at lower present some 3,000 world corporations — have access costs, while at the same time corporations — have access from 300 cities, via a local telephone call, to a system of data, including the United Nations mouthly Bulletin of Statistics, OECD Economic Surveys, and IMF financial information manufacturers with real working office environments in which to environments in man-test and evaluate the oper-test of their ational efficiency of advanced equipment".

The IT equipment in the office

Copiers/duplicators Word processors Pax/intercoms/message Teletext/videotext Data processing terminals /personal computer Telex/teleprinters/facsimile Micrographics Electric/electronic type-PABX's/data links Central computer system Accounting/invoicing ma-

The advanced equipment which Xionics is developing is known as a local area network (LAN). It is a system which can link together a myriad of computers, word processors and other electhose from the Census estimate for the 10 to 99 employee group of 350,000 establishments (against 250,000 from the census) and for the one to 9 employee group, 1,200,000 office establishments compared with 750,000 in the census.

Through the IMR survey we now know that one in three of the working population work in offices (7,500,000 out of 23,500,000) and that 95 per cent of work places have less than 50 employees and these establishments account for nearly half the total working tronic equipment to form an inter-office or inter-factory network. The company has, in effect, developed a device which allows all parts of the network to talk with one another.

another.

According to the managing director, Mr Michael Bevan, managements in the past have "over-exercised their freedom of choice". Their selection of office equipment ranges from Viewdata, Prestel, Herald telephone systems, to mainframe and desk-top computers and word top computers and word

processors.

The products usually come from different manufacturers and can often be incompatible. The customer can get frustrated when one machine breaks down and work cannot be handled by another.

The network overcomes this incompatibility. It can convey messages, transfer electronic mail and retrieve data from other computer centres or data banks. It thould enable the Cabinet this month, price £1.95) it

electronic mail and retrieve data from other computer centres or data banks. It should enable the Cabinet Office staff to get a report on the visual display unit within seconds.

Mr Bevan hopes his network will prevent the recidivism that seems to occur within some offices using IT. One of the major complaints concerns the lack of the resiliance and reliability of IT products. If a part does break down it is important that the system is still able to carry on. When this does not happen users return to the One of the major complaints concerns the lack of the resiliance and reliability of IT products. If a part does break down it is important that the system is still able to carry on. When this does not works leave it alone".

"The market is mainly ignorant and unimaginative rather than non-existent...it is hard nut to crack happen users return to the old methods of working, resulting in an increasing antipathy towards the new

good information technology, managers in such areas as marketing, research and development, design, finance and sales, are able to gain immediate access

research and development, design, finance and sales, are able to gain immediate access to relevant accurate information on sales, production and marketing trends.

Mr Tom Elliott, managing director of Unilever's UIMC, sees IT as being particularly important in making an executive's time more effective. For instance, simple and

Fine words do not a telephone system make

"I believe that the future ditional cry "that is all we prosperity of Britain depends can afford; you'll have to do on our being bang up-to-date the best you can"? And will in the latest technology, and preferably one step ahead of other countries". That is Britain genuinely competitive. what Mrs Thatcher said, in a In Britain, as in every

foreign engineers that the reason for the "X" is that British Telecom has still to decide what form it will take. Add to this an Administration that does not practice "interventionism" to help its industries join the cut-throat world of high technology, and a populace that seems indifferent to science and engineering, and what lies behind the fine words?

It is a big question, and one way to break it down into one way to break it down into manageable proportions is to look at what government departments are spending on information technology. That leads to some more specific questions; for example do the most advanced firms get the contracts, or are they going to companies with traditional or "old boy" ties with government? Are buying decisions made by people with knowledge and experience of the information technology industry, or are they bureaucratic in nature? consultants. It also includes which is due to end this year, some spending that comes made £55m available to help under the Ministry of De-

what Mrs Thatcher said, in a specially-recorded video tape interview, at the launch of IT82.

Fine words, but they are in any objective person's terms impracticably optimistic. Britain's present telephone system is a disgrace, by the standards of "other country, the government is the biggest buyer of information technology. In practice, this means it buys the most computers, telephones, exchanges, data bases, internal communication systems and so on. It has to, processing as it does more "information" than any other identifiable "body". Precisely how much it spends in total is impossible to calculate, split up as it is cation systems and so on. It has to, processing as it does more "information" than any other identifiable "body". Precisely how much it spends in total is impossible to calculate, split up as it is between a dozen or so government departments, and many more spending agencies. So to sharpen the questions once more in the context of the Prime Minister's remarks about IT82, we shall apply them to current tiny sums.

The microsystems centres

whose aims will be to offer

The Department of Industry The Dol is the biggest spending and sponsoring agency in information technology. It acts as host to the Information Technology Division, and has the only minister responsible for IT. The Doi plans to spend £80m over the next four years, "to help research, develop and manufacture new products and processes in the IT field and to raise awareness of IT decisions made by people in all sectors of the community this money is, in addition to several hundred technology industry, or are they bureaucratic in nature? Is there enough cash being allocated to do the job properly, or is it the tra-

shall apply them to current and future spending plans.

But although this list of money sounds impressive, it needs careful examination to put it into perspective. One quarter of the £80m allocated to information technology to information technology will in fact go to promoting the subject over the next four years, and film of that is four years, and tim of that is being spent on promoting 1782. Less than £2m of the remainder has yet to be committed to new projects and those that do have price tags connected (setting up microsystems centres, an exports advisory committee, and bolstering the micro computers for schools programmes receive individual) grammes receive individuall'

whose aims will be to orier training and export skills in using microcomputers for "businessmen and others" — will get £600,000 from the Government to match the similar amount provided by the National Computing Centre which set up and runs them. The export committee, whose role will be to improve the sales overseas of British IT products, will cost £250,000 for the one year it is due to exist. And the microdue to exist. And the micro-for-schools project, started last June, has a notional upper limit of £4m, though the DoI says it has not yet worked out how much it spent on the 2,000 or so applications it has processed.

The Dol's biggest expenditure to date has been the Microprocessor Applications Project and its sister the Microelectronics Industry Support Programme, MAP,

people: become aware of microelectronics, to help pay for consultants to design systems for them and to pay in part for the hardware and in part for the hardware and software they decided on MAP's administrators have spent more than £45m so far MISP's main role has been to support Inmos.

Its next biggest outlay of cash seems likely to be the information technology centres it is just starting to set

information technology cen-tres it is just starting to set up. These will train unem-ployed young people in microcomputer technology and give them the experience of computing that the Government thinks is vital to getting a job these days. Each centre cost £3m and just before Christmas, Kenneth Baker announced that the Dol will set up 100 of them.

The Dol's other key projects are: Office Automation projects (11 pilot projects have been proposed at a cost of 5500,000 each); a scheme to make industry aware of the advantages of computer aided design and manufactures. aided design and manufac-ture; (16m over three years) another parallel project to encourage robotics in indus-try (under which interested manufacturers will get grants to help them assess and install automatic manufactur-ing machines); and a scheme to encourage industry to build up skills in optical fibre communications cables and the terminals needed to convert these into complete convert these into complete telephone or data transmission networks. This scheme will cost £25m over the stable around the forse but at least it gives some hope that the problems of the complex infrafocus on novel technology.

Until it was merge thin the Treasury recently.
Service Department the Charged with the resulting for keeping the Counting House Office

Service Department of the charged with the respective that the respective to go with it are developed by experts. Working alongside the inexperienced people who will use the systems.

The CCTA's latest task

Home Office's involve must with Information Technology in the respective to the respecti Information Technology.
What dees are the communications systems that it uses to handle classified information these operate to internationif (Nato) standards, moving coded information from one computer to another. They bear little resemblance to the kinds of equipment that leople will be increasingly using in their homes and weightees, though some of the advanced electronic component could be passed on to civil firms. This tends to happen in the United States, but not in britain, The CCTA's latest task (announced by the then Minister of State for the CSD, Barney Hayhoe, last November) is to investigate what government will need in the way of "administrative the way of "administrative telecommunications" over the next 10 years. This piece of jargon means all the cables, exchanges, word processors and computer data bases that are needed to build a modern electronic office network. The fact that opinion office network. The fact that the CCTA is only doing this total R & D budget) does not study now, although it has been running its micro workshop for four years might seem like designing that the stable around the horse but at least it gives some

Technology Editor.

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How Rank Xerox brings your office into the future.

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supplying the complex infra-

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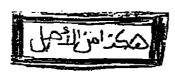
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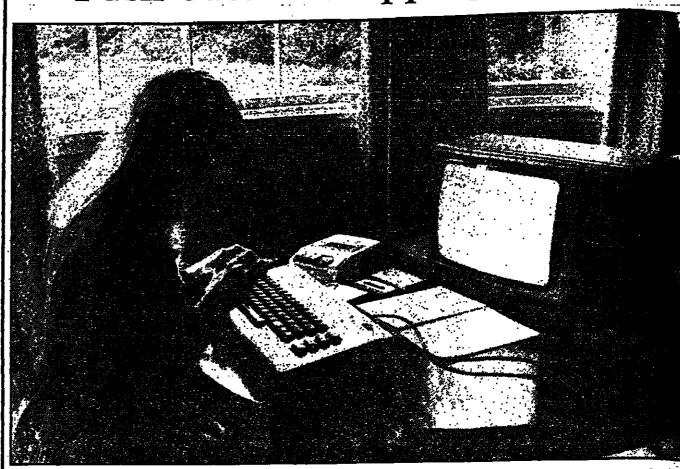
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Push-button shopping arrives



Computers in the home: the use of computers holds no fears for the young, many of whom are now computers daily at school. The machine being used here by an 11 year old is the newly-launched VIC 20 colour computer. More than 18,000 have been sold since the launch in October.

Generally the home with a suitably adapted television set has a choice of two videotex information services. There is teletext, broadcast by the BBC and ITV, and there is viewdata provided by British Telecom through telephone links.

One of the basic appeals of computer-based videotex information is that it can be updated rapidly and cheaply by the sender. Print-out attachments can be fitted to receivers.

There are believed to be 250,000 to 300,000 sets either purpose-built or linked to an adaptor to receive teletext. The BBC calls its product Ceefax, that from ITV is Oracle.

When British Telecom's own viewdata operation, Prestel, opened a little more than two years ago it ex-pected to compete in the mass market with Ceefax and Oracle. But so far it has attracted only about 15,000 clients, and has shut down some of the computers which were ready to meet the information explosion.

Since both systems provide a similar service, information in printed and computergraphic form thrown on the television screen at the touch of a few buttons on a key-pad, the discrepancy in public response looks strange. But there are a variety of reasons.

Long cord is required

The principal one is that teletext comes free, like other television programmes although the BBC says cautiously "not at the moment" when asked if an extra licence is required for Ceefax. ITV takes advertising to pay for Oracle. The only cost to viewers is that of buying a new set or an adaptor to

receive broadcasts.

Prices vary, but a trade spokesman suggested a 22-inch full remote control television set, normally sell-ing at about £350, might rise to £450 to £475 for Ceefax and Oracle. With Prestel as well the price could be £575-£600. Adaptors for an exist-ing set of the same kind, he would range from £200 to £250 for teletext, and from £190 to £230 for Prestel. At present a separate adaptor is needed for each of the two

services.
Prestel, in addition, incurs a fee which shows up on the telephone bill. This may be no more than the cost of a local call while the set is in use, but there can be additional charges for access to some information. The caller is warned of these before he keys them in.

There are other physical and psychological influences at work. Few people place their television set where it is easily linked to the tele-

easily linked to the telephone, so in many cases a
long cord is required.

Women and children tend
to control the television
switches in the average
home. Fathers are unwilling
to give their children use of
what could be an expensive
toy (each Prestel user has his
own pass-code). But it would
be a bold husband who
insisted on calling up the
racing results when his wife
was watching Coronation
Street or Wimbledon.

It is probably for these

It is probably for these reasons that some 80 per cent of Prestel sets are installed in offices. Very likely many home sets as well are owned by businessmen who cannot sleep without knowing whether Wall Street was panicking at the close of

However, the potential of Prestel far exceeds the ca-pacity of television systems. pacity of television systems. Currently it can call up 200,000 pages of information, although many of them are highly specialized; they include case histories for lawyers and a few sentences about various trade unions, including my own.

If there were more sets installed, the number of organizations supplying data to Prestel, called information providers, would rapidly in-

providers, would rapidly in-

a broader audience would also be attracted to the service. Users can put information

into the system as well as take it out. The ordinary numeric keyboard can convey a limited range of messages to another subscriber; with a full alphabetic keyboard detailed communications can be sent. In two or three years British Telecom

three years British Telecom expects to have Prestel 2 transmitting pictures of full colour photograph quality.

Already armchair shopping for a limited range of goods is a possibility for anyone equipped with a Prestel set and a credit card. Debenham's and W. H. Smith were among the first to develop among the first to develop this outlet. Goods are ordered by filling in a page form through the key-pad and giving the credit card number. They are delivered to the registered address of the customer. Home shopping could be

the locomotive to get Prestel really moving in March, when the Gateway service is introduced in London, later to spread nationally. This will allow a receiver, at present limited to the system's own computer, to contact external computers anywhere in the country through the Packet Switched Service, British Telecom's public datz net-

So, for example, it will be possible for customers to dial direct to a mail order firm's computer, or make airline and holiday reservations, having first checked that agencies are already heavy users of Prestel). Gateway could also introduce banking transactions from the home. There could be equally far-

reaching effects in actual information retrieval. Technically, a scholar might study

manuscripts and rare books television companies, has in remote libraries without already done this in Scotland,

the people with the information have it processed in a form accessible to a general rvice, even if they wished

to do so. However, even with the existing service it is possible for a body providing pages to keep them confidential by placing them in Closed User Groups. They are then only available to other subscribers nominated by the provider of the information.

Hired for a few pounds more

BBC's Ceefax is confined to information, whether news or features. Broadly speak-ing, BBC 1 carries the spot news, and BBC 2 the magazine material, including con-sumer advice, and a section of jokes and puzzles. It is possible to combine Ceefax with an ordinary television programme, so that a news-flash will appear in a small box on the screen when important events occur.

Rapid acceptance of the system owes something to the freedom the corporation has to advertise its own service—specimen pages can be seen early in the day on BBC1 and at various times on BBC 2. As with ITV's Oracle, purpose-built sets can be hired for a few pounds a month more than a conventional television set.

Both share the handicap that transmissions are only available from the time broadcasting starts for the day down to its close. Also of an age of white-hot the number of pages is technological revolution, and limited, perhaps 400 to 500 mo doubt such drawbacks will between the two BBC chan- be resolved before the moun

nels on a typical day.

The BBC plans to ease this limitation by regionalizing news, and items about weather, sport and entertainment. Oracle, which is owned injustly by all the composite. jointly by all the commercial

will be regional advertising as well as information.

as well as information.

ITV time worth about £2an is being used to publicize the Oracle service, and interest potential advertisers. There are cheerful forecasts that by 1985 the audience for teletaxt will run into millions, rather than hundreds of thousands. Advertisements can appear as

Advertisements can appear as separate items or as fractions of editorial pages.

Perhaps the commonest complaint from users of both viewdata and teletext is the difficulty in using the index systems. It may mean first calling up one or more pages calling up one or more pages of general index, progress to a sectional index of several pages, and finally homing in on the particular page carrying the required facts.

Some of this frustration

wears off as the user be-comes familiar with the numbers of pages he calls up regularly. Ceefax and Oracle customers make heavy use of the sections which tell them about the television pro-grammes they could be watching.

Another problem is that any system takes time to deliver a page. With Prestel it is produced letter by letter as from a high-speed teleprin-ter. On Ceefax and Oracle the delay occurs because every page is broadcast in non-stop sequence, and only when the page requested comes round can it be flashed on the individual screen.

tain of information turns into a volcano engulfing us all.

Britain has been a pioneer in the applications of video-tex, and industry and government have been active in promoting overseas sales.

Patrick O'Leary

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INFORMATION TECHNOLOGY

Big plastic spender still needs his wallet

Bankers today speak not of a cashless, chequeless world, but of the less-cash, lesscheque society. With hands on hearts, they say they want to shorten the queues at high street branches, which would benefit them as well as customers.

It is true that what is known as electronic funds transfer is growing, with money passing from one account to another without the use of paper to achieve it. Most people who use cheques have some experience of this; for example through credit transfer, principally in the payment of salaries, or through direct debit of stand-

ing orders for meeting bills. technological spender is the plastic card which operates cash dispensers, automated teller machines, or on a small scale so far, point-of-sale shop-ping. Credit cards can bunch cheque, as well as reducing cash-carrying, but generate much paper work along the

way. tomers, insurance companies
Standing orders have received a set-back, because some local authorities, as inflation means they need well as secretaries trying to constant updating, almost as round up subscriptions. troublesome as old Bodies receiving large numbers of monthly or quarterly debiting is still recovering remittances appreciate a system where money forms after the state of the state from one or two well-publi-cized disasters in its early computer has sooken en days. People are not yet fully reassured by fervent prot-estations that they will be credit transfer is another notified of changes in the area expecting rapid profigures, and indemnified against mistakes.

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Money on a rainy day.

this system is growing from the banks' corporate cus-tomers, insurance companies and building societies, and computer.

Payment of salaries by gress. As a nation Britain is underbanked, perhaps only

have accounts, against 90 per cent in many EEC countries. This is largely because most manual workers are paid in cash. Some are being wooed to change, by employers with cash bonuses, and by banks with simpler and cheaper handling of small accounts.

But the first-time account holder is the person most likely to grow disillusioned if it is not just as easy to take his money out as put it in, and he probably bates queu-ing. So the simple cash dispensers are giving way to through-the-wall banking with automated teller ma-

Most of these can handle banks money, using less requests for statements and staff, in smaller premises, chequebooks to be sent to and giving scope for new the holder's home, as well as services, it seems likely to being problems. When every cash withdrawal within ag- bring problems. When every reed limits. A few also take man can sit at home and deposits. During most of the

clay's are installing such tage. He might also take machines at various rates, evasive action before slipping and Trustee Savings Bank accidentally into the red and has a similar programme.
They can be placed inside branches to relieve pressure on counter staff as well as through-the-wall. In some cases customers can offer poters, tapping in the request for cash under the eye of a human teller. The advantage to the bank is that no cheque

has to be processed. Staff also use desk-top terminals to check accounts, work out currency conver-sions, and for similar tasks. Some have machines which print out receipts.

operations which require a also developed its own sysmultiplicity of heavily-staffed branches. Already cash dis-pensers can be found in stores and on the premises of

stores and on the premises of large employers of staff.

Point-of-sale schemes, in which the client presents his card at a suitably equipped store or petrol station, have been tried out in several countries. Through a direct link with the bank his account is debited and the shopkeeper credited immediately, provided the funds are available. Britain's big four are cooperating on a joint scheme, and hope that within a couple of years it will be possible to make payments without separate terminals being needed for each kind of card.

The system, known as Topic, is linked to the exchange's central database called Epic, and can be switched to Prestel or, at critical moments in sporting history, to ordinary television channels. Because it is in colour it can reproduce something of the atmosphere of the trading floor, where price rises are marked in blue and falls in red. A practised eve can sweep over

Self-service at home?

The next move could be The next move could be self-service at home, the customer sending instructions through viewdata. One American banker has suggested it would be economic to lease attachments for television sets at low rentals, eliminating many transtelevision sets at low rentals, eliminating many transactions which entail a visit to a branch. It would be possible for viewers to order cash to be delivered by registered mail, but this sounds like an idea invented by mail robbers.

Prospects are exciting but

Prospects are exciting, but in reality electronic payments in Britain are believed to account for less than 20 per cent of all non-cash transfers. The percentage is rising, although as total transactions are also increasing, the cheque mountain

But it is overshadowed by some bargains are struck cash deals, estimated to automatically at ruling outnumber non-cash by eight prices. This can remove large or nine to one. It must be amounts of small orders remembered that the value of from manual processing by

Since 1968 the London and day, about 70 to 80 per cent Scottish clearing banks have of the business on the sponsored the Inter-Bank exchange. Otherwise about Research Organization. A 500,000 pieces of paper would have to be shuffled round the study the application of the proper of fiscer during a special paper. study the application of various offices during a information technology to fortnightly account. financial transactions and monitor its results. Having faced by the shopkeeper and introduced the machine-read-independent businessman able cheque, banks are pressing for standardization of credit slips.

Electronic funds transfer on a massive scale is carried out by Bankers' Automatic Clearing Services, another product of the main banks. instead of vouchers, this receives tapes at its City office or Edgware computer centre from firms and other organizations. These contain instructions for payment of salaries, trade bills, and

similar transactions. At the BACS centre debits and credits are micro-filmed for record purposes, then they are stored in the

computer, and distributed in bulk on fresh tapes to the appropriate banks. Limits can be set on individual items, or on totals, so that gross errors are challenged

In addition to processing tapes the centre expects in about a year's time to be able to take instructions by tele-communications. In such an advanced organization it is a relief to find staff saying that the quickest way to send 15 sacks of tapes daily from the City to Edgware is by van.

Before long banks will have a new instrument for passing money, under which the Bank of England and others will be connected directly to a central com-puter. This would extend the same-day clearance of che-ques, from London to other parts of Britain. In time, it could mean less pressure for the world's banks to But pressure to switch to 60 per cent of its earners retain an office, however, small, in the Square Mile:

Not everyone welcomes rapid transfer of money rapid transfer of money between accounts. Those institutions most importunate in urging people to pay small remittances by direct debit, prefer to pay their own larger bills by old-fashioned

means. This is partly a product of high interest rates. A cheque in the post can represent money in the bank or in the market, earning two or three days' interest. On a large scale this outweighs the cost of manual handling of an

While technology can save deposits. During most of the working day a customer can check his current balance.

All four main clearing banks, Lloyds, National Westminster, Midland, and Barclay's are installing such machines at various rates, and Trustee Savines Rank accidentally into the red and check his balance, or transincurring charges. tably, there will be increased demands for all banks to pay interest on current balances.

A stream of information

Switching funds and in estments is the business of the Stock Exchange, where the offices of dealers, brok-ers and jobbers receive a daylong stream of information on video print out receipts.

But bankers would really like to move away from but the Stock Exchange has tem. This incorporates information from agencies with that from the exchange's own sources, the price reporters

switched to Prestel or, at critical moments in sporting history, to ordinary television channels. Because it is in colour it can reproduce something of the atmosphere of the trading floor, where price rises are marked in blue and falls in red. A practised eye can sweep over a board, or in this case screen, and tell whether the market in any particular sector is going up, down, or dithering.

Its operators say screen fill time is much less than on some other systems, which means when you switch to the page of information of your choice it is completed faster. Another refinement is that half a page can be expanded to twice the normal character size.

Topic operates outside London, although distance adds to the cost of leased British Telecom lines. Some

transactions are also increasing, the cheque mountain does not diminish.

In the United States computer-matched stock dealing does not diminish.

non-cash payments is generally high; but even if the black economy disappears, it will be some time before wallets go out of fashion.

Since 1968 the London and day spect 70 to 80 per cent

More modest problems are independent businessman, who often feel they ought to buy computers without knowing quite why.

To give the beginner a chance to judge for himself the National Computing Centre has established a microsystems centre in London offering advice and training. The Department of Industry is backing a scheme to open others throughout the country. Retailers have already taken to electronic cash registers. Computer-based models are said to be particu-

larly useful in betting shops. Patrick O'Leary

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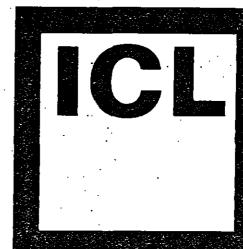
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1982 is Information Technology Year. It's a special year too, for ICL. A year of important new marketing strategies.

New Networked Product Strategy ICL is offering its new Networked Product Line which will meet the growing needs of distributed processing and office automation in world markets.

New approach to small system selling New ICL Computer Point demonstration centres will offer the small business community easier access to ICL's powerful, small computer systems with a wide range of application solutions, to meet businesses' real needs.

New attitudes to third parties ICL is introducing new commercial initiatives, under the banner Trader Point, to encourage distributors, software and systems houses to sell ICL small computers, like the DRS 20, which starts at a simple workstation, and can grow into a fully networked system.

New collaborations

New collaborations are taking ICL into engineering productivity with PERQ, personal computing with Rair, very powerful mainframes with Fujitsu, electronic private telephone exchanges with Mitel, and 'One per desk' workstations with Sinclair.

New force in information technology With its new products and strategies, ICL enters 1982 positioned to be a world leader in information technology.

The new ICL. Leaders in information technology.

Automatically your valet

Three or four years ago I to a machine than to another quickly than through leaflets leading electronics firm illustrating how computers temporal t trating how computerized tempered, automation could transform Aiready the deaf and dumb life at home. All the gadgets can communicate with key-seen, they assured me, were boards and video terminals,

finding anyone who could even remember its existence. Perhaps we are just not ready for a world in which, by depressing a few buttons, you can draw the curtains and check the outdoor temperature before leaping jout of bed, run the bath water while acausing the electronic while scanning the electronic news, burn the toast and the coffee while soaking, and open the garage doors and start the car while taking leave of your wife, who can activate the self-propelled vacuum cleaner while watch-

We are all vaguely aware that micro-electronics have invaded our lives, at the office, when we travel, pay a bill, or go shopping. The airline check-in girl uses a computer to allocate seats. Taxi meters flicker away in one line of computer numerals instead of an array of dials, and pub tills have gone

But in the home new technology seems more accerebioly seems more ac-ceptible if it appears in a familiar guiselimproved tele-vision and electric organs, more sensitive thermostats to sive fuel, washing machines, tookers, dishwashers, and toasters which could use sensors to switch off when the job is done rather than at present time. Even the electronic sewing machine is not obtrusively different from its predecessors. In the frightening jargon of the industry, these are "user friendly." friendly

However, we are reluctant to put it all together, so that one computer console, programmed to a particular home's requirements, can control a battery of applianc-es. At present, the pressure for such simplification comes principally from a section of society least able to pay for it those who are physically or mentally handicapped.

To a man or woman whose handicaps mean the limit of achievement is to throw a simple switch on and off or press a sensitive keyboard, information technology offers the potential for increased independence and a base, accessible through much fuller and more profiviewdata television sets, table life. Even the mentally which would provide up-to-inpaired often respond more date information much more

based on existing technology.
Two or three weeks ago I
phoned the company and to one foot. There is a
saked about the film. Their machine which translates
proved unequal to the task of finding anyone who could systems may improve the Micro-electronic computer systems may improve the operation of artificial limbs. The teletext services of the BBC and ITV offer a service to the hard of hearing whereby some ordinary pro-grammes can be seen with sub-titles. Ultrasound equip-ment can help the blind to move about.

More advanced aids are technically feasible: domestic appliances, from light switches to cookers, which will turn off and on at voice commands, a video entry-phone for someone in a wbeelchair to check who is at the door. But most gadgets, even those which are in production, are too costly for the average family.

One man who is himself handicapped and manufac-tures a typewriter designed for fellow-sufferers, says: 'There's not a big enough market at the moment for anyone to make money out of it." Moreover, the public image of technology does not lend itself to charitable giving; a fund for guide-dogs has more emotional appeal than one for electronically equipped wheelchairs.

However, the number of handicapped rises as we maim each other with cars and coshes, and as we live official scrutiny. infant diseases. There is also the prospect of enlarging the possible market to other European countries and to other continents.
In the meantime the qui-

ckest answers are seen in adapting existing commercial products. The spread of home computers could be significant here, even if the users required special key-boards to go with standard machines. Industry has small robots which might have applications for the disabled

Not the least of current problems is keeping those who need the knowledge in touch with what is available aid. One of the Government initiatives this year is to consider setting up a data-

mation

Specific launching events have been arranged for each

of the nine regions into

mark, with last week's Swansea Bay Micro Show.

Tomorrow sees the launch of

the North West's programme, heralded by a press confer-

ence in Manchester and a

Other regional launches

East region special IT weeks will be held in some 20 towns

will even be an IT race day at

Newmarket in May. At national level, there is

the Col. Consisting of up to

be an impressive modular

competition for

preview of the region's

computer

divided for IT purposes.

ing about what is best for people who are at present housebound. Developments in communications mean they can work as secretaries Or computer programmers for example, from their own homes. But some would argue it is better to concentrate on devices to increase their mobility, and enable them to go out to work as others do.

Introduction of optical fibre telephone cables should expand the services piped into the home. The Department of Industry is sponsor ing field tests later this year in a thousand homes in Milton Keynes and parts of London, of remote-control reading of electricity, gas and water meters. In this case the information will pass through electricity mains, and it will also be possible to monitor equip-ment to detect leaks, and interference with meters.

Burglar alarms have be-come highly automated, and some transmit pre-arranged messages to local police stations. It is possible for similar alarms to be activated over the telephone by miniature radios.

An elderly person alone in a house who suffered an accident rendering it imposcould use a wristwatch-sized radio to call a preset number and alert a relative at work. But radio transmitters are to allocation of wavelengths

The electronic clock and scoreboard have long been features of sporting events. But the use of automatic line judging at Wimbledon last year opens up intriguing possibilities. Few soccer hooligans would enjoy abusing a robot referee.

Visual arts have not embraced the microprocessor to any marked extent. As for other organizations, it has proved useful in routine applications, booking seats and word-processing appeal letters. Lighting of stage sets has been partly-automated.

Instant video-taping means that a performance can be stored for study. The Insti-tute of Contemporary Arts has started a library of tapes for viewing in its premises in exhibition stand, designed by

Patrick O'Leary

six hexagonal steel-framed bubbles, each occupying about 30 sq m, the stand will

The IT 82 calendar

The organisers of Infor- be seen at eight national Technology Year exhibitions, starting with the short) are confident. Which Computer? Show at (FT82 for short) are confident the NEC, Birmingham, next that its circular black and

white logo — the i has a bright blue deat as familiar as ments Seven contrasting environ- education, the was 1981's Year of the home, at work (office or Disabled triangle.
They base their confidence on the cumulative impact of the many hundreds of national and regional events to the factory), banking, shopping and health — have been selected for special emphasis on each occasion, according to the character of the venue. that have been devised to Exhibition, for instance, the office will provide the autopromote the object of the year — "a wider appreciation of the opportunities and benefits provided by infor-

Listed here is a selection mation technology to all from some of the year's sectors of the community."

Some will fly under IT's own colours. Many more are regular events whose spon- or as interpreted by the or as interpreted by the participants. Many of the exhibitions directed at the sors have spotted that IT could provide a topical and interesting theme with which to dress up their hardy general public rather than the trade will be visited by one of IT's mobile electronic The Doncaster Chamber of office units - six 47ft long trailers displaying the latest Commerce, for instance, has in word processors, micro-computers and electronic taken IT up for this year's Impel, the chamber's annual equipment for telephone and trade and industry fair. So has the Coventry Junior

facsimile transmission.

Manned by the Government's National Computing Chamber of Commerce, which is linking its 50th anniversary conference in September with a compe-Centre, these trailers can be booked free of charge from the NCC, Bainbridge House, tition for an IT project designed to appeal to youth and the unemployed. Granby Row, Manchester Mi 2PW (tel 061 228 0609/0798). The first four will be laun-ched by the Prime Minister at tomorrow's IT ceremony in Manchester.

In addition to these events Wales was first off the mark, with last week's and exhibitions, a wide variety of professional bodies have undertaken IT-related projects. The Institute of Management Consultants have adopted IT as the theme for their annual conference: the Institute of Bankers, the Consultants Management Association, the Institute of Chartered Accountants and the Institute of Electrical

are scheduled as follows: Scotland, Jan 18 (Edin-burgh); West Midlands, Jan 18 (Birmingham); London and South East, Jan 20 Engineers. The British Medical Association is to run a (Wood Green, Norwich, Hemel Hempstead); East Midlands, Jan 21 (Nottingmonthly competition in its journal, and the Jim Conway Foundation has arranged a series of IT seminars for ham, Beeston); North East, Jan 28 (Leeds, Newcastle, Sheffield); Northern Ireland, trades unionists. The Booksellers Association plans a number of bookshop displays Jan 25 (Belfast); South West, Jan 29 (Bristol). and to publish an IT bibli-In the London and South

ography.

Of wider interest, perhaps, will be the six-week exhiand boroughs, including Brighton, Canterbury, Craw-ley, Greenwich, Guildford, Hackney, Haringey, Haver-ing and Maidstone. There hitions to be mounted by the Design Council in London, Swansea, Glasgow and New-castle. So will an IT exhibition at the Science Museum, from the end of April.

Finally, stamps (those essential seals of Establishment approval) will be issued by the Post Office in September.

Richard Sachs

January Launch of IT trailers by the Prime Minister, NCC, Manchester (15). Which Computer? Show, NEC, Birmingham (19-22). FAST (Forecasting and Assessment of Science and Technology) seminar, Selsdon Park, Croydon (25-29). Micropex, Glasgow City Chambers (27-29). BP Oil Computer Centre

opens, Hemel Hempstead (28). February

Business Equipment and Services Exhibition, Bristol (3-4) and Bournemouth (17-18). Info '82, Barbican (9-12). National Computer Users Forum, Institute of Electrical Engineers (9). Computers and Technology in Education, Cardiff (8-9) and Swansea (10-11). Microsystems Exhibition, West Centre Hotel, London

March ■ International Electrotechnical Exhibition (Electrex) NEC, Birmingham (1-5). Microshow, New Century Hall, Manchester (3-5). Business World Exhibition, Bristol (7-10). Daily Mail Ideal Home Exhibition, Earls Court (9-Apr 3). Daily Telegraph Business to Business Exhibition, NEC, Birmingham (9-13) Oxfordshire Microfair Oxford (11-12). Home Video Show, Cunard International Hotel London (11-15).

Business Equipment and Services Exhibition, Brighton (17-18). Royal Statistical Society Conference, York (22-26). Institute of Directors Conference, Royal Albert Hall, London (23). Electro-Optics/Laser International Exhibition (23-25). Thames Valley Business Show, Slough (23-26). Audio-Visual Exhibition, Wembley (29-Apl 1). Laboratory Equipment Exhibition, Edinburgh (30-31). Computer-aided Design Conference and Exhibition, Brighton (30-Apr 1). Lasers and Systems for Controls and Measures Conference and Exhibition, Manchester (30-

April Chelmer Institute of

Information Processing symposium and exhibition Cheimsford (13-16). Local Area Network Distribution Office Systems exhibition and conference, Tara Hotel, London (14-16). NUT Conference, Scarborough (9-15). All Electrical Show, Barbican (19-21). NUPE Conference, Scarborough (21-27). Institute of Management Consultants Conference, Imperial College (21). Communications '82, NEC, Birmingham (20-23). Tickhill and District Lions Club Marathon, Yorks (25) Booksellers Association Conference, Scarborough (29-May 3). Science Museum IT Exhibition opens (till

ICL Computer Users Conference, Bournemouth (5). Dudley College, Institute

of Data Processing Management exhibition (10-15). Micro-City Exhibition, Bristol (10-13). 1982 Microshow, Wembley (11-13). Welsh Industries Fair, Cardiff (12-15). IT Race Day, Newmarket (14). Design Council Exhibition, Haymarket, London (16-June 26). Shropshire and West Midlands Agricultural Show, Shrewsbury (19-20). Devon County Show, Exeter (20-22). International Word Processing Exhibition, Wembley (25-28).

.inse IT Exhibition, Plymouth Polytechnic (2-4). Impel '82, Doncaster (5-12). Times and Sunday Times Business to Business Exhibition, Earls Court (6-9). EETPU Conference, Scarborough (6-12). Computers in Medicine Conference, Institute of Electrical Engineers and British Medical Association

(7-8). London Multi Media Market, Tower Hotel (13-17).

Business Efficiency Exhibition Earls Court (14-18). Electronic Publishing Conference, (14-19). Office Automation Show, Barbican (15-17). Business to Business Exhibition, Cardiff (23-25).

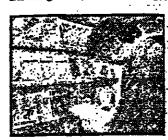
Careers Research Advisory Council Conference, Cambridge (6-9). Design Council Exhibition, Swansea (20-Aug 21). Royal National Eisteddfod, Swansea (31-Aug 7). Tyneside Summer Exhibition, Newcastle (27-31)

August

International Scout Camp, Lakeland Forum. Coventry Evening Telegraph Town and Country Exhibition.

September

Riackpool Illuminations, (1-Oct 31). International Air Show, Farnborough (5-12). ICCC '82, Barbican (7-10). Post Office issues IT stamps, (8). Design Counci? (8). Design Council Exhibition, Glasgow, (15-Oct. 30). Media and News in 30). Media and News in Action, Earls Court, (20-Oct 4). Coventry Junior Chamber of Commerce conference and exhibition, (16-18). International Personal Computer World Show, Barbican (9-12). Design Engineering Show, NEC. Birmingham (28-Oct 1).



October

Viewdata '82, Wembley (12- --14). British Computer Society Jubilee Conference, Queen Elizabeth Hall, London (14). Computers on the Farm, National Agricultural Centre, Stoneleigh (20-21). International Motor Show, NEC, Birmingham (20-31). Wildscreen 82 Exhibition, Bristol (22-26).

November Design Council Exhibition, Newcastle (mid-Nov to mid-Dec). Mac Compec Show, Olympia (16-19). Business Data Processing and Education Conference

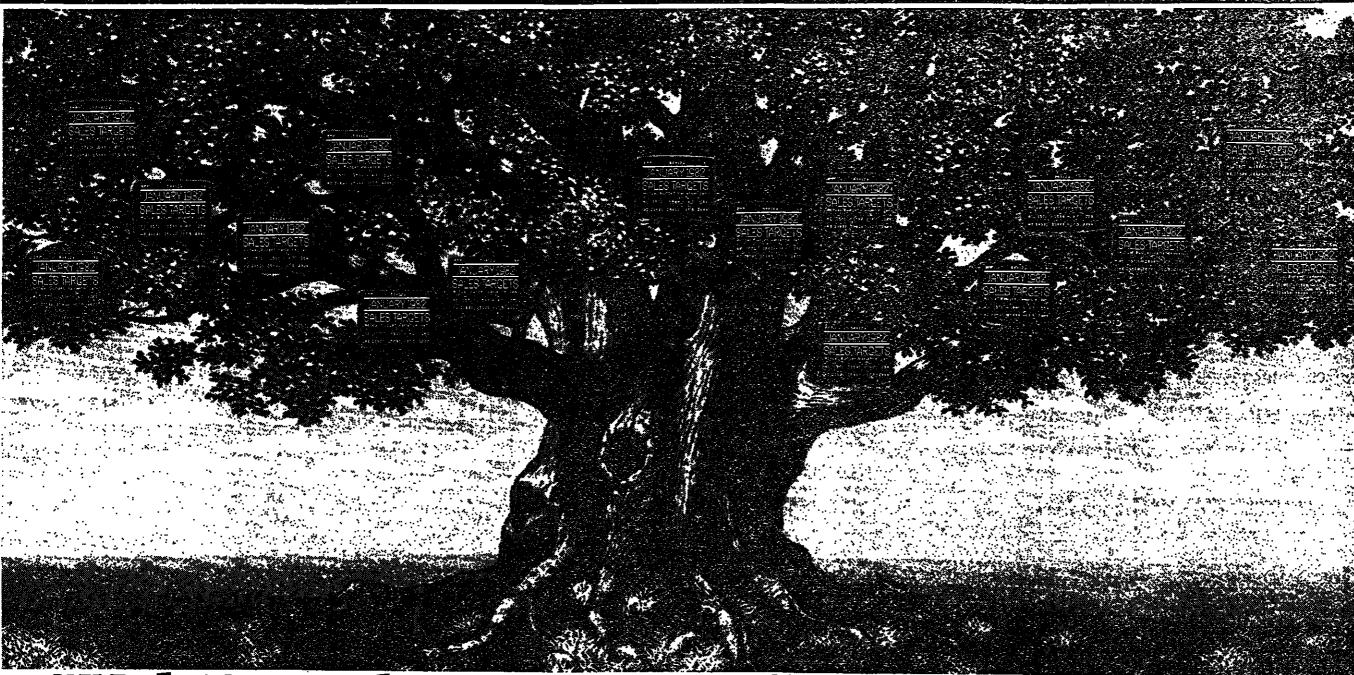
Kelvin Hall, Glasgow (23-27). December British Cardiac Exhibition and Conference, Wembley (6-7). Strategies for Software

Development Conference (7-11). 6th International On-Line Information Exhibition, Cunard International Hotel (8-10). B IT 82 Year-end Conference, Barbican (8-9). ■ The IT stand will be at these exhibitions.

Calendar compiled from

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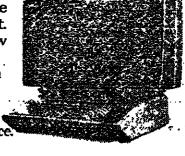
While the local newspapers are having the relevant pages printed off ready for sub-editing.

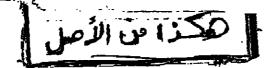
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INFORMATION TECHNOLOGY

Mr a one be ing en the ike

Pearce Wright, Science Editor and Clive Cookson, technology correspondent, consider a future

increasingly dependent on electronic information Time for a fourth industrial sector

Conventional statistics kept by the governments of the industrial world divide the economy into three sectors of activity: agricultural, manufacturing and services. These figures show the shift over the years from the land to factories and more recently into service occupations by the workforce. In North America the proportion of people working in service jobs has risen to almost six out of 10 individuals.

An important part of this expanding group of workers are people involved in the production, storage, retrieval and distribution of infor-mation. According to Dr H. P. Gassman of the Organization for Economic Cooperation and Development (OECD) in Paris, those activities are acquiring a growing importance in the overall production of goods and

That view is supported by a new survey of Science and Engineering Employment by the National Science Foundation, in Washington, which shows that employment of computer graduates almost doubled between 1970 and 1980, while engineering employment generally increased only 25 per cent.

Against that background a group of experts from the OECD member countries are examining the connexion between information technology, productivity and employment. Their preliminary conclusion suggests that it is time for the industrial world to include a fourth sector to the breakdown of economic activities. But these specialists, who

neet as a working party on information, computer and communications policy, are refining a scheme for sepa-rating out the "information sector" from the traditional three across which it cuts. There is an element of

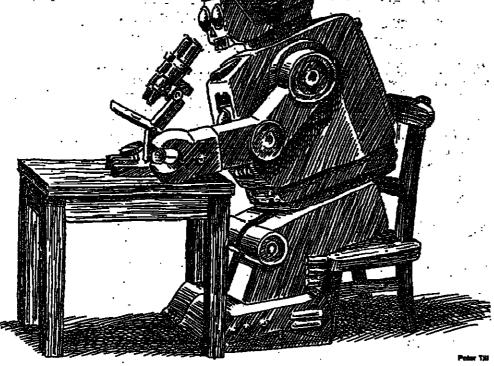
"information activity" in any occupation. The estimate of the size of the fourth the size of the fourth economic sector defines information occupations as those which have the production, processing or distri-bution of information as their primary purpose. To these are added jobs which build and maintain the infor-mation systems that the first group use, such as telephone network fitters, computer operators and office equipment maintenance men.

Information producers are divided between four groups of workers. First, scientific and technical workers engaged in research and development. Next, information gatherers who cover a variety of occupations mainly concerned with creating new sources of information. Then there are market search and coordination specialists who provide, via search activities, market information to buy- the form of individual routers, sellers or both. Fourth, there are those providing the cars particular an existing body of knowledge to the particular were impossible to the particular were impossibl needs of a client.

Information processors cover the administrators and managers who have to know how to interpret and exploit the information given to them. Clerical and related jobs which call upon an employee to manipulate information and data in a form appropriate to an employer are also in this category. Information distributors include teachers, publishers and librarians, and a variety

of jobs in the news and entertainment media. Finally come the so-called infrastructure occupations of those who install, operate and repair the machines and technologies to support information activities. ■ Before long, Japanese motorists will be guided electronically to their desti-

nations by the shortest and least congested routes. The driver puts a seven-digit code, corresponding to his destination, into the car's microprocessor before setting out on the journey.



Then, whenever he approaches an intersection, a visual display unit on the dashboard will direct him to turn right or left or continue straight ahead. It also tells him graphically which lane to use for entering or leaving

instructions, the system will flash important information about road conditions ahead: for example, "road works" or "pedestrian crossing".

The Comprehensive Automobile Traffic Control System, as it is called, has already been tested successfully in an experiment covering 30 sq km of Tokyo. The results are now being evaluated by a government industry committee, with a view to installing the system in other wast array of biochemicals installing the system in other urbanized areas of Japan.

The system depends on loop antennae installed under the road about 200 metres from each intersection and connected to a roadside transmitter/processor unit. As a car drives over an antenna, a two-way digital communications link is established automatically between it and the roadside unit. The unit picks up the vehicle's destination and identification codes and transmits the routing and driving infor-mation back to it.

All the roadside units alsoinformation and deduces an overall pattern of traffic density and movement. That is relayed back to the roadside units and then, in ing and driving guidance, the cars passing by. .

microcomputers were invented, scientists doing research in computer technology were casting an envious eye at molecular biologists unravelling the mechanism whereby the genetic code is stored and operated from the double helix of DNA in the nucleus of cells. In terms of infor-mation processing and storage, it makes even the latest microchips containing 250,000 transistors look like a

dinosaur and slow.

But a small privatelyowned research company, in Maryland, is experimenting with ideas for biological computers that exploit DNA coding. This intriguing devel-opment is described in the current issue of the magazine Omni. It is the idea, some may say fantasy, of Dr James McAlear who has assembled a small team of expert genetic engineers and bio-chemists to devise a proto-type bioprocessor.

They hope to design computers that will assemble reusable themselves by using the sheet, mechanism common to all restraint.

place in the High Street

living things. These futuristic bioprocessors would also be used as implants to treat blindness or deafness caused by damage to tissues.

The attraction of exploiting biological processes is un-derstandable because the biologist is looking at con-ductive velocities of impulses, circuit switching speeds and packing densities of information that leave the electronic engineer far ectronic engineer

Dr McAlear is not the only pioneer in this field. But his work of applying biological principles to manufacture the ultimate in integrated circuits began with an idea and assemble them into living organisms. Dr McAlear believes that a mechanism capable of creating order from that incredible com-plexity could serve as a basis for organizing simple microcircuits.

The transmission of newspaper pages and pictures via radio links and communications satellites for printing simultaneously in several places is having a growing impact on publishing. Even a famous newspaper like the New York Times is expanding into a national rather than a transmit traffic data back to largely regional distributed the system's control centre. Publication. Its method of The latter processes the scanning completed newsscanning completed newspaper pages with a laser system which transmits the image to receivers in other cities is very advanced technology.

transmission by satellites is extending the International Herald Tribune's circulation to more corners of the globe; and the two great American weekly magazines, Time and Newsweek, exploit this chan-nel in the competition to get their issues first into the hands of overseas readers. Yet these developments are

still based on the idea of producing pages of news-print, to be squeezed by a delivery boy through the letter box or bought from the news stand. But even more advanced experiments in the United States show how to produce an individually printed newspaper in the home, containing only those pages selected by the reader.

In technical terms, the process is not particularly stunning. The factors putting a brake on the development are economic and social. The method works by having a printer attached to a television set that is providing a videotex service. The absence of a very cheap printer, probably working with reusable paper or plastic sheet, is the biggest offset and computer phototypesetting make

The web-offset machines available 15 years ago to start the revival for regional newspapers were not adequate for the scale of national newspaper operations. But the relentless increase in newsprint costs, distribution and competition from broadcasting services had galvanized publishers in America to use phototypeset-ting, and to follow it with computer editing, even for large circulation titles. The past five years in particular has seen the arrival of video display terminals in news-

The technical details of various schemes are a bit academic, but the issues at stake between the traditional and electronic publisher are not. Both of them are now creating what is in effect a computer information warehouse. The first difference between printing and other manufacturing industries is that the raw materials held in the warehouse of the pub-lisher are computerized data. Using that data to provide an electronic newspaper on demand by the customer will comes as certainly as night follows day. The second difference is

Ideas of this kind were

inevitable from the moment

services like British Telecom

Prestel viewdata and the BBC's and ITV's Ceefax and

distributing information stored in a central computer,

and hence they become electronic publishers.

applying electronic tech-nology in Britain was set by

however, was the introduc-tion of web-offset printing to

replace the traditional letter-

press machines. But this was

soon coupled with compute-

photocomposition or

Oracle teletext were inthat the products of the information warehouse are vented. For they depend on almost everlastingly reusable. So the electronic publisher has potential for an incred ible choice of services. The The interesting thing is to product at the end of the day see how traditional pub-lishers respond. The pace in may be a set of photographic transparancies or polymer plates. The photographic images can be sent by facsimile transmission to the regional and local newsthree or four places for printing by web-offset. At the same time, specialized services can be offered to papers. The first advance, subscribers who want to order their own category of newspaper information to be printed at home or work. what is now generally referred to in the printing industry as cold type. Web-

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monthly International Word Processing Report. work now and prices are coming down, making it easier for, say, the married woman, or disabled person,

Laura Tatham, a former journalist specializing in computers, for many years, opened Wordpro Word Processing Service, in a former tailor's shop in Essex Road, North London, six months

local small businessmen.

of information technology

have not yet been compiled,

inquiries I have had, the number is growing," said Mrs Andrea Wharton, a director of Keith Wharton

Consultants, who produce a

a business from

Her clients range from a chant bank, solicitor, firm of charges vary, but a typical what a word processor was, price would be £2.75 to set up let alone think of using it. some young people who have her to prepare and

Information Technology is print their job application for a printed page. "At first already beginning to take its place in the High Street. She has in her growing Shops are opening, equipped with word processors and procedure manuals, a component of the printed page. "At first sight this might sound expensive, but it is a lot cheaper than hiring a temporary secretary," she says. hoard of memory discs, procedure manuals, a comhigh-speed printers, offering plete novel, newsletters, a a fast service, mostly for catalogue of rare antique ocal small businessmen. books, leases and several Precise figures for this personalized mailings for ew "cottage industry" use local companies. She has also transcribed a technical seminar from audio tape for one but estimates suggest that customer.

some 200 operations from shop, or even front room, are functioning in the country. "But, from the number of inquiries I have had, the she does it for them while they wait.

rocessing Report.

aniums, and finally come in need for new employment and ask "What do you do"?

opportunities".

Miss Tatham usually lets people look over her shoulder as she keys in, say, a letter sor — demonstrating how to make instant corrections or edit the text on the screen, how to check spelling errors by switching in a stored dictionary. Then she shows dictionary. Then she shows how, by pushing a button the Diablo printer alongside her produces the letter at a speed

a full A4 page, 550 words, in the word processor plus 30p

She employs Marie Bryant, 18, who operates a second word processor from her wheelchair. "Marie has been on a work experience course" said Miss Tatham, "but this is her first job. Because she is disabled the computer company sent someone down here to train her. She picked it up amaz-ingly quickly. I'm always hearing that word processing and information technology Local people, with their shopping bags, often walk past her bright green shop with window full of gerare going to mean unemployarea where there is a crying

opportunities". Wordplex, the company which makes and sells word on her Compucorp wordpressor — demonstrating how to service shops, on a franchise

of spreading the gospel of Information Technology. Ive just heard about a vicar who of 45 characters a second, or half a minute for a full A4 on a word processor. A year ago he wouldn't have known are a word processor was,

Rita Marshall

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